

Pioneer *sound.vision.soul*

Service Manual

ORDER NO.
CRT4139

CD RECEIVER

DEH-P6080UB /X1F/BR



**This service manual should be used together with the following manual(s) listed below.
For the parts numbers, adjustments, etc. which are not shown in this manual,
refer to the following manual(s).**

Model No.	Order No.	Mech. Module	Remarks
DEH-P6050UB/XN/ES	CRT4090		
CX-3240	CRT4050	S10.5COMP2-iPod/USB	CD Mech. Module:Circuit Descriptions, Mech. Descriptions, Disassembly

EXPLODED VIEWS AND PARTS LIST

PACKING(Page 36)

PACKING SECTION PARTS LIST

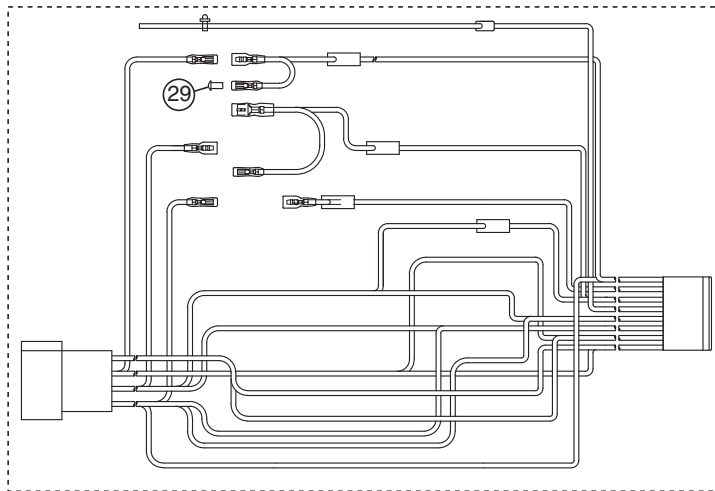
*:Non spare part

Mark	No.	Description	DEH-P6050UB/XN/ES	DEH-P6080UB/X1F/BR
A	*	1 Accessory Assy	CEA7317	CEA7316
		13 Unit Box	CHG6392	CHG6402
		14 Contain Box	CHL6392	CHL6402
	*	19 Polyethylene Bag	CEG1250	Not used
		21-1 Installation Manual	CRD4260	Not used
		21-2 Caution Card	CRP1310	Not used
	*	21-3 Caution Card	CRP1364	Not used
	*	21-4 Caution Card	CRP1366	Not used
		22 Cord Assy	XDP7004	XDP7003
		24 CD-ROM (Operation Manual)	CPJ1217	Not used
B	*	Operation Manual (CD-ROM: PDF)	CRB2573 (English)	Not used
	*	Operation Manual (CD-ROM: PDF)	CRB2574 (Spanish)	Not used
	*	Operation Manual (CD-ROM: PDF)	CRB2575 (Portuguese(B))	Not used
	*	Operation Manual (CD-ROM: PDF)	CRB2576 (Traditional Chinese)	Not used
	*	Operation Manual (CD-ROM: PDF)	CRB2577 (Arabic)	Not used
		25 Owner's Manual Assy	CXC9693	Not used
	*	Quick Start Guide	CRB2612 (English)	Not used
	*	Quick Start Guide	CRB2613 (Spanish)	Not used
	*	Quick Start Guide	CRB2614 (Portuguese(B))	Not used
	*	Quick Start Guide	CRB2615 (Traditional Chinese)	Not used
C	*	Quick Start Guide	CRB2616 (Arabic)	Not used
		Owner's Manual	Not used	CRB2493 (Portuguese(B))
	*	Service Network	Not used	CRY1227
	*	Caution Card	Not used	CRN1084
D				

EXTERIOR(1)(Page 38)

EXTERIOR(1) SECTION PARTS LIST

Mark	No.	Description	DEH-P6050UB/XN/ES	DEH-P6080UB/X1F/BR
E	4	Panel	CNS9319	CNS9342
	5	Detach Grille Assy	CXC8931	CXC8933
	19	Grille Unit	CXC8874	CXC8877
	26	Cord Assy	XDP7004	XDP7003
	29	Cap	Not used	CKX-003



DRIVE UNIT(Page 42)

DRIVE UNIT SECTION PARTS LIST

Mark	No.	Description	DEH-P6050UB/XN/ES	DEH-P6080UB/X1F/BR
	39	Panel Unit	CXC8925	CXC9406(Panel Assy)

ELECTRICAL PARTS LIST(Page 73)

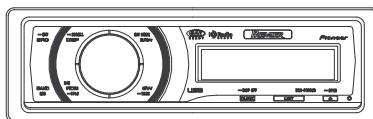
TUNER AMP UNIT

Circuit Symbol and No.	Part Name	DEH-P6050UB/XN/ES	DEH-P6080UB/X1F/BR
IC601	IC	PEG430B8	PEG430C8

KEYBOARD UNIT

Circuit Symbol and No.	Part Name	DEH-P6050UB/XN/ES	DEH-P6080UB/X1F/BR
IC1921	IC	PD8180A	PD8178A

Service Manual



DEH-P600UB/XN/UC

ORDER NO.
CRT4090

CD RECEIVER

DEH-P600UB_{/XN/UC}

DEH-P6000UB_{/XN/UC}

DEH-P6050UB_{/XN/ES}

DEH-P6050UB_{/XN/ES1}

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3240	CRT4050	S10.5COMP2- iPod/USB	CD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly



For details, refer to "Important Check Points for Good Servicing".

SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

● Safety Precautions for those who Service this Unit.

- When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

Caution:

1. During repair or tests, minimum distance of 13 cm from the focus lens must be kept.
2. During repair or tests, do not view laser beam for 10 seconds or longer.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replaced only with the same or equivalent type recommended by the manufacture.
Discard used batteries according to the manufacture's instructions.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 SERVICE PRECAUTIONS



1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
2. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
3. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
4. After replacing the pickup unit, be sure to check the grating.
5. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
6. EJECT LOCK MODE for CD mechanism
In order to enter "EJECT LOCK" mode, reset start while pressing the "DISP" and "BAND/ESC" keys together. Pressing the "DISP" and "BAND/ESC" keys until monitor backlight is turned on.
In order to exit "EJECT LOCK" mode, follow the same steps to enter this mode.

1.2 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40° C.
Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373° C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
GYP1006 1.0 in dia.
GYP1007 0.6 in dia.
GYP1008 0.3 in dia.

2. SPECIFICATIONS

2.1 SPECIFICATIONS

● DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC

General

Power source..... 14.4 V DC
(10.8 V to 15.1 V allowable)
Grounding system..... Negative type
Max. current consumption
..... 10.0 A
Backup current 6.0 mA or less

Dimensions (W × H × D):

DIN

Chassis 178 mm × 50 mm × 165 mm
(7 in. × 2 in. × 6-1/2 in.)
Nose 188 mm × 58 mm × 18 mm
(7-3/8 in. × 2-1/4 in. × 3/4 in.)

D

Chassis 178 mm × 50 mm × 165 mm
(7 in. × 2 in. × 6-1/2 in.)
Nose 170 mm × 45 mm × 18 mm
(6-3/4 in. × 1-3/4 in. × 3/4 in.)

Weight 1.5 kg (3.3 lbs)

Audio

Maximum power output 50 W × 4
50 W × 2/4 Ω + 70 W × 1/2
Ω (for subwoofer)

Continuous power output .. 22 W × 4 (50 Hz to 15 000
Hz, 5 % THD, 4 Ω load, both
channels driven)

Load impedance 4 Ω to 8 Ω × 4
4 Ω to 8 Ω × 2 + 2 Ω × 1

Preout max output level 4 V

Equalizer (7-Band Graphic Equalizer):

Frequency..... 50/125/315/800/2k/5k/12.5k
Hz

Gain ±12 dB

HPF:

Frequency..... 50/63/80/100/125 Hz

Slope -12 dB/oct

Subwoofer (mono):

Frequency..... 50/63/80/100/125 Hz

Slope -18 dB/oct

Gain +6 dB to -24 dB

Phase Normal/Reverse

Bass boost:

Gain +12 dB to 0 dB

CD player

System Compact disc audio system

Usable discs Compact disc

Signal-to-noise ratio..... 94 dB (1 kHz) (IHF-A net-
work)

Number of channels 2 (stereo)

MP3 decoding format MPEG-1 & 2 Audio Layer 3
WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11 (2ch
audio)

AAC decoding format..... MPEG-4 AAC (iTunes®
encoded only) (.m4a)
(Ver. 7.2 and earlier)

WAV signal format Linear PCM & MS ADPCM
(Non-compressed)

USB

Specification USB 2.0 full speed

Supply current 500 mA

Maximum amount of memory
..... 250 GB

File system..... FAT16, FAT32

MP3 decoding format MPEG-1 & 2 Audio Layer 3

WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11 (2ch
audio)

AAC decoding format..... MPEG-4 AAC (iTunes®
encoded only) (.m4a)
(Ver. 7.2 and earlier)

WAV signal format Linear PCM & MS ADPCM
(Non-compressed)

FM tuner

Frequency range..... 87.9 MHz to 107.9 MHz

Usable sensitivity..... 8 dBf (0.7 μV / 75 Ω, mono,
S/N: 30 dB)

Signal-to-noise ratio..... 75 dB (IHF-A network)

AM tuner

Frequency range..... 530 kHz to 1 710 kHz
(10 kHz)

Usable sensitivity..... 18 μV (S/N: 20 dB)

Signal-to-noise ratio..... 65 dB (IHF-A network)

CEA2006 Specifications



Power output 14 W RMS × 4 Channels
(4 Ω and ≤ 1 % THD+N)

S/N ratio 91 dBA (reference: 1 W into
4 Ω)



Note

Specifications and the design are subject to mod-
ifications without notice due to improvements. ■

● DEH-P6050UB/XN/ES, /ES1

General

Power source.....	14.4 V DC (12.0 V to 14.4 V allowable)
Grounding system.....	Negative type
Max. current consumption	10.0 A
Backup current	6.0 mA or less
Dimensions (W × H × D):	
DIN	
Chassis.....	178 mm × 50 mm × 165 mm
Nose.....	188 mm × 58 mm × 18 mm
D	
Chassis.....	178 mm × 50 mm × 165 mm
Nose.....	170 mm × 45 mm × 18 mm
Weight	1.5 kg

Audio

Maximum power output.....	50 W × 4 50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)
Continuous power output ..	22 W × 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both channels driven)
Load impedance.....	4 Ω to 8 Ω × 4 4 Ω to 8 Ω × 2 + 2 Ω × 1
Preout max output level	4 V
Equalizer (7-Band Graphic Equalizer):	
Frequency.....	50/125/315/800/2k/5k/12.5k Hz
Gain	±12 dB
HPF:	
Frequency.....	50/63/80/100/125 Hz
Slope	-12 dB / oct
Subwoofer (mono):	
Frequency.....	50/63/80/100/125 Hz
Slope	-18 dB / oct
Gain	-24 dB + 6 dB to
Phase	Normal/Reverse
Bass boost:	
Gain	+12 dB to 0 dB

CD player

System.....	Compact disc audio system
Usable discs	Compact disc
Signal-to-noise ratio.....	94 dB (1 kHz) (IEC-A network)
Number of channels	2 (stereo)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio) (Windows Media Player)

AAC decoding format.....	MPEG-4 AAC (iTunes® encoded only) (.m4a) (Ver. 7.2 and earlier)
WAV signal format	Linear PCM & MS ADPCM (Non-compressed)

USB

Specification	USB 2.0 full speed
Supply current	500 mA
Maximum amount of memory	250 GB
File system.....	FAT16, FAT32
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio) (Windows Media Player)
AAC decoding format.....	MPEG-4 AAC (iTunes® encoded only) (.m4a) (Ver. 7.2 and earlier)
WAV signal format	Linear PCM & MS ADPCM (Non-compressed)

FM tuner

Frequency range.....	87.5 MHz to 108.0 MHz
Usable sensitivity.....	8 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio.....	75 dB (IEC-A network)

AM tuner

Frequency range.....	531 kHz to 1 602 kHz (9 kHz)
	530 kHz to 1 640 kHz (10 kHz)
Usable sensitivity.....	18 μV (S/N: 20 dB)
Signal-to-noise ratio.....	65 dB (IEC-A network)

Infrared remote control

Wavelength.....	940 nm ± 50 nm
Output	typ; 12 mw/sr per Infrared LED



Note

Specifications and the design are subject to modifications without notice due to improvements. ■

2.2 DISC/CONTENT FORMAT

A



B

C

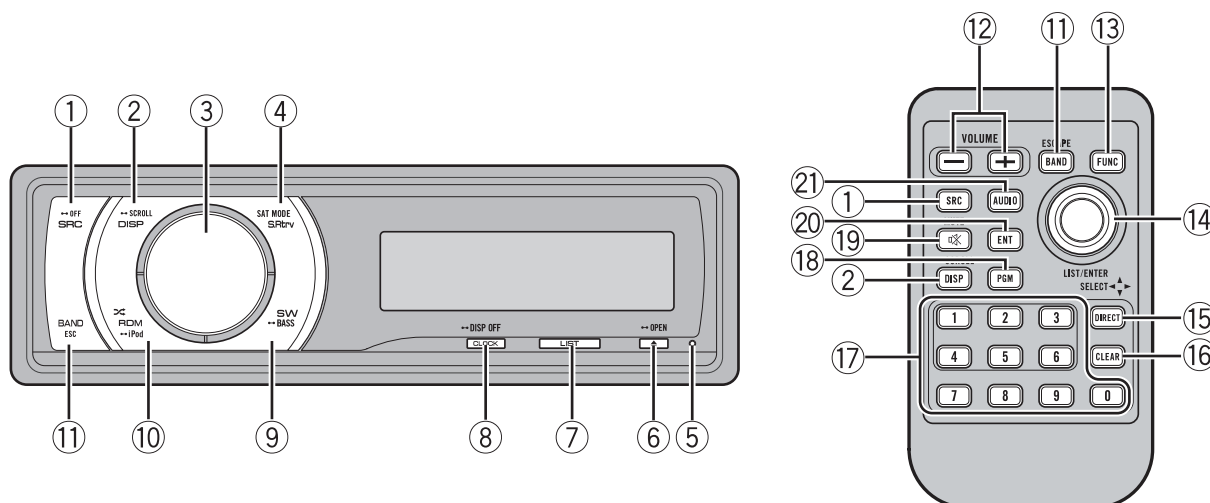
D

E

F

2.3 PANEL FACILITIES

● DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC



What 's What

Head unit

① SRC/OFF button

This unit is turned on by selecting a source. Press to cycle through all the available sources.

② DISP/SCROLL button

Press to select different displays. Press and hold to scroll the text information.

③ MULTI-CONTROL

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions. Turn to increase or decrease the volume.

④ S.Rtrv/SAT MODE button

Press to switch Sound Retriever settings. When XM tuner or SIRIUS tuner is selected as the source, press to change the channel select mode. When SIRIUS tuner is selected as the source, press and hold to perform the Instant Replay mode.

⑤ RESET button

Press to reset the microprocessor.

⑥ EJECT/OPEN button

Press to eject a CD from your built-in CD player.

Press and hold to open or close the front panel.

⑦ LIST button

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

⑧ CLOCK/DISP OFF button

Press to change to the clock display. Press and hold to turn the display indication and button illumination off or on.

⑨ SW/BASS button

Press to switch to subwoofer setting menu. When operating subwoofer menu, press to switch setting. Press and hold to switch to bass boost menu.

⑩ RDM/iPod button

Press to turn random function on or off while using CD or USB.

While using iPod, press this button to shuffle all tracks.

Press and hold to switch the control mode while using an iPod connected USB connector of this unit.

If using the iPod with an interface adapter (CD-IB100N), press to switch the shuffle function.

⑪ BAND/ESC button

Press to select among three FM bands and one AM band.

Press to return to the ordinary display when operating menu.

⑱ PGM button

Press to operate the preprogrammed functions for each source.


⑲ MUTE button

Press to turn off the sound. To turn on the sound, press again.

⑳ ENT button

Press to change to the entertainment display.

㉑ AUDIO button

Press to select various sound quality controls. 

Remote control

Operation is the same as when using the buttons on the head unit.

⑫ VOLUME buttons

Press to increase or decrease the volume.

⑬ FUNCTION button

Press to select functions.

⑭ Thumb pad

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

Functions are the same as

MULTI-CONTROL except for volume control.

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

⑮ DIRECT button

Press to directly select the desired track.

⑯ CLEAR button

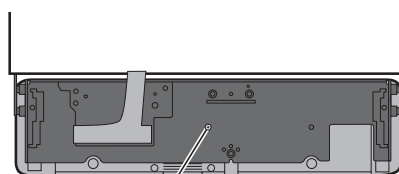
Press to cancel the input number when 0 to 9 are used.

⑰ 0 to 9 buttons

Press to directly select the desired track, preset tuning or disc. Buttons 1 to 6 can operate the preset tuning for the tuner or disc number search for the multi-CD player.

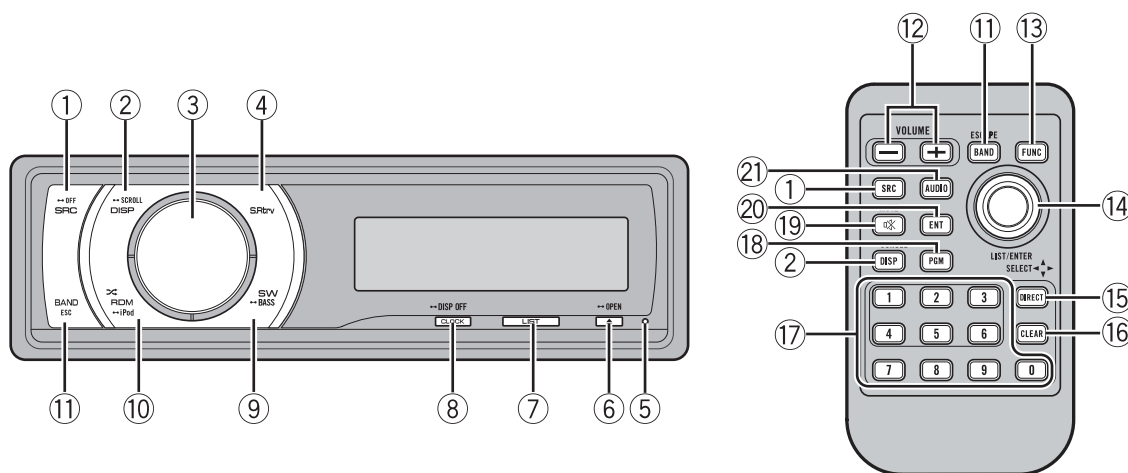
Fastening the front panel

If you do not plan to detach the front panel, the front panel can be fastened with supplied screw.



Service screw
JPZ20P060FTB

● DEH-P6050UB/XN/ES, /ES1



What's What

Head unit

① SRC/OFF button

This unit is turned on by selecting a source. Press to cycle through all the available sources.

② DISP/SCROLL button

Press to select different displays. Press and hold to scroll the text information.

③ MULTI-CONTROL

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions. Turn to increase or decrease the volume.

④ S.Rtrv button

Press to switch Sound Retriever settings.

⑤ RESET button

Press to reset the microprocessor.

⑥ EJECT/OPEN button

Press to eject a CD from your built-in CD player. Press and hold to open or close the front panel.

⑦ LIST button

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

⑧ CLOCK/DISP OFF button

Press to change to the clock display. Press and hold to turn the display indication and button illumination off or on.

⑨ SW/BASS button

Press to switch to subwoofer setting menu. When operating subwoofer menu, press to switch setting. Press and hold to switch to bass boost menu.

⑩ RDM/iPod button

Press to turn random function on or off while using CD or USB. While using iPod, press this button to shuffle all tracks. Press and hold to switch the control mode while using an iPod connected USB connector of this unit. If using the iPod with an interface adapter (CD-IB100N), press to switch the shuffle function.

⑪ BAND/ESC button

Press to select among three FM bands and one AM band. Press to return to the ordinary display when operating menu.

Remote control

Operation is the same as when using the buttons on the head unit.

A

⑫ VOLUME buttons

Press to increase or decrease the volume.

⑬ FUNCTION button

Press to select functions.

B

⑭ Thumb pad

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

Functions are the same as

MULTI-CONTROL except for volume control.

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

C

⑮ DIRECT button

Press to directly select the desired track.

⑯ CLEAR button

Press to cancel the input number when 0 to 9 are used.

⑰ 0 to 9 buttons

Press to directly select the desired track, preset tuning or disc. Buttons 1 to 6 can operate the preset tuning for the tuner or disc number search for the multi-CD player.

■

⑱ PGM button

Press to operate the preprogrammed functions for each source.

D

⑲ MUTE button

Press to turn off the sound. To turn on the sound, press again.

⑳ ENT button

Press to change to the entertainment display.

■

㉑ AUDIO button

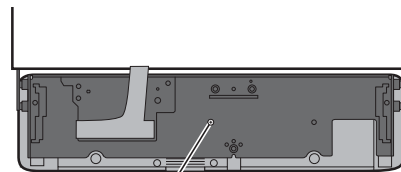
Press to select various sound quality controls. ■

E

F

Fastening the front panel

If you do not plan to detach the front panel, the front panel can be fastened with supplied screw.

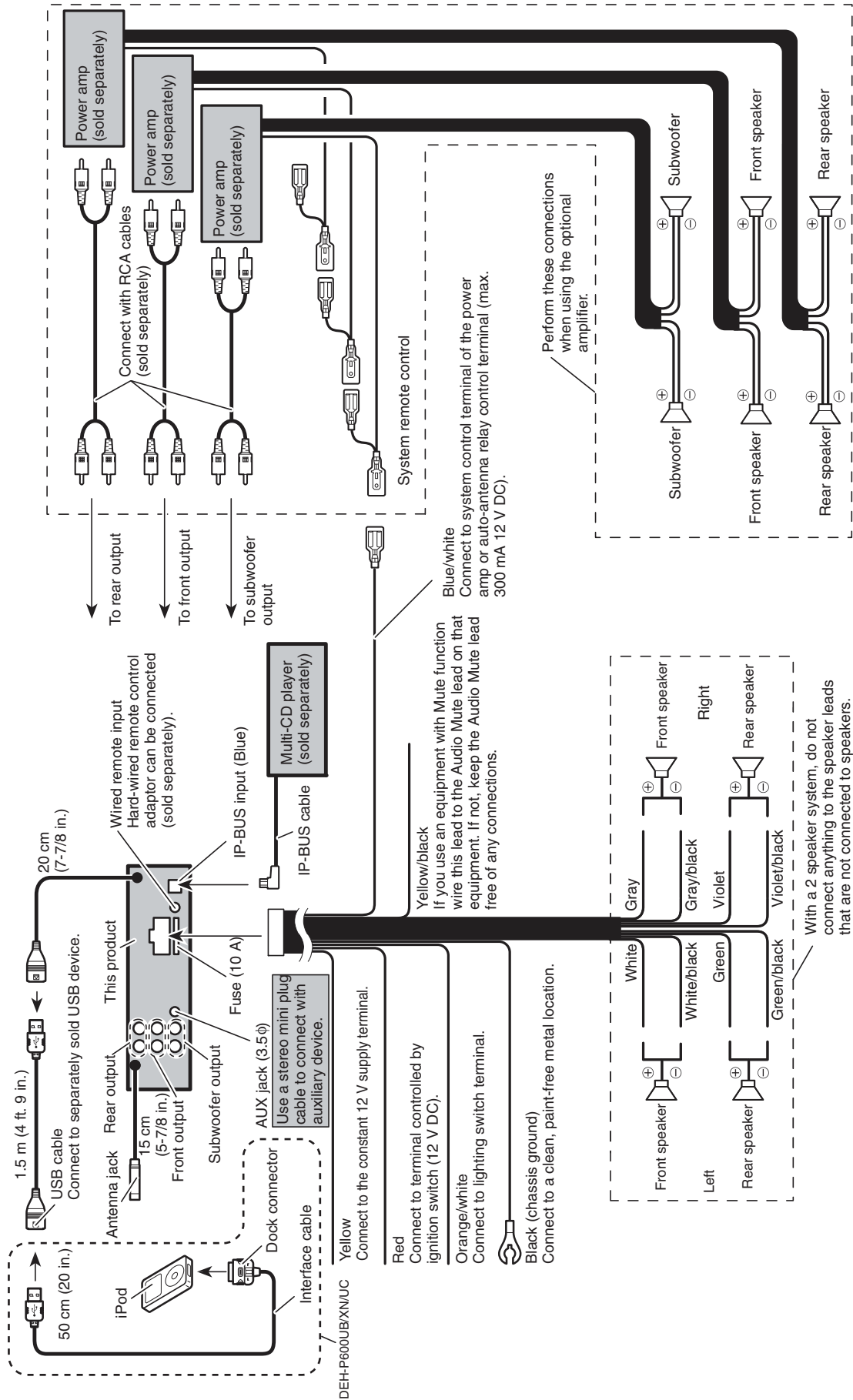


Service screw
XXX7019

2.4 CONNECTION DIAGRAM

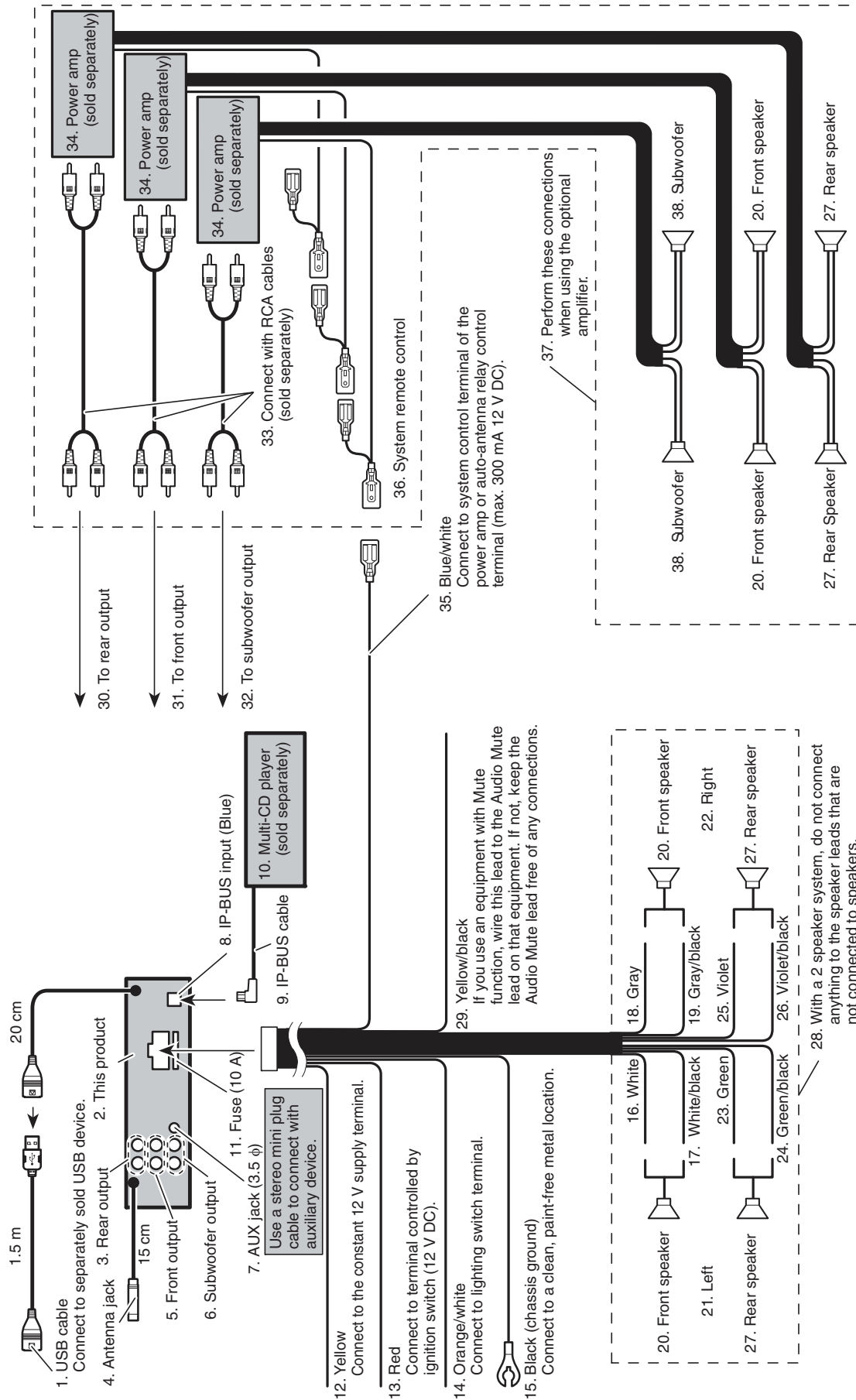
● DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC

When not connecting a rear speaker lead to a subwoofer



DEH-P600UB/XN/UC

● DEH-P6050UB/XN/ES, /ES1



3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

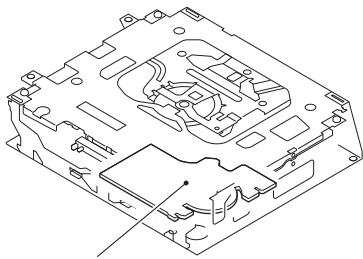
To keep the product quality after servicing, please confirm following check points.

No.		Procedures	Item to be confirmed
1		Confirm whether the customer complain has been solved. If the customer complain occurs with the specific media, use it for the operation check.	The customer complain must not be reappeared. Display, audio and operations must be normal.
2	CD	Play back a CD. (Track search)	No malfunction on display, audio and operation. Display, audio and operations must be normal.
3	FM/AM tuner	Check FM/AM tuner action. (Seek, Preset) Switch band to check both FM and AM.	Display, audio and operations must be normal.
4		Check whether no disc is inside the product.	The media used for the operating check must be ejected.
5		Appearance check	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding audio:

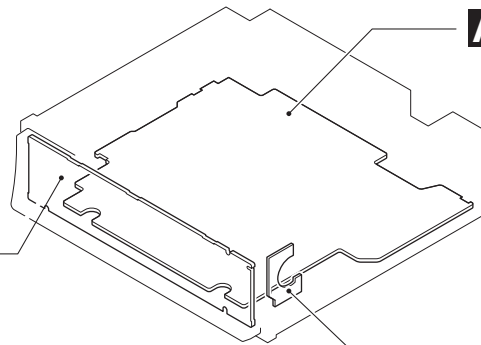
Item to be checked regarding audio
Distortion
Noise
Volume too low
Volume too high
Volume fluctuating
Sound interrupted

3.2 PCB LOCATIONS



C CD Core Unit
(S10.5COMP2-iPod)

Unit Number : CWN3149(P600UB)
 Unit Number : CWN3148(P6000UB)
 Unit Number : CWN3150(P6050UB)
 Unit Name : Tuner Amp Unit
 Unit Number : (P600UB)
 Unit Number : (P6000UB)
 Unit Number : (P6050UB)
 Unit Name : Keyboard Unit
 Unit Number : CWX3526
 Unit Name : CD Core Unit
 (S10.5COMP2-iPod)
 Unit Number : CWS1389
 Unit Name : Switch Unit



A Tuner Amp Unit

B Keyboard Unit

D Switch Unit

3.3 JIGS LIST

● Jigs List

Name	Jig No.	Remarks
Test Disc	TCD-782	Checking the grating
L.P.F.		Checking the grating (Two pieces)

● Grease List

Name	Grease No.	Remarks
Grease	GEM1024	Drive Unit , CD Mechanism Module
Grease	GEM1041	Drive Unit
Grease	GEM1045	CD Mechanism Module
Grease	GEM1069	Drive Unit

3.4 CLEANING

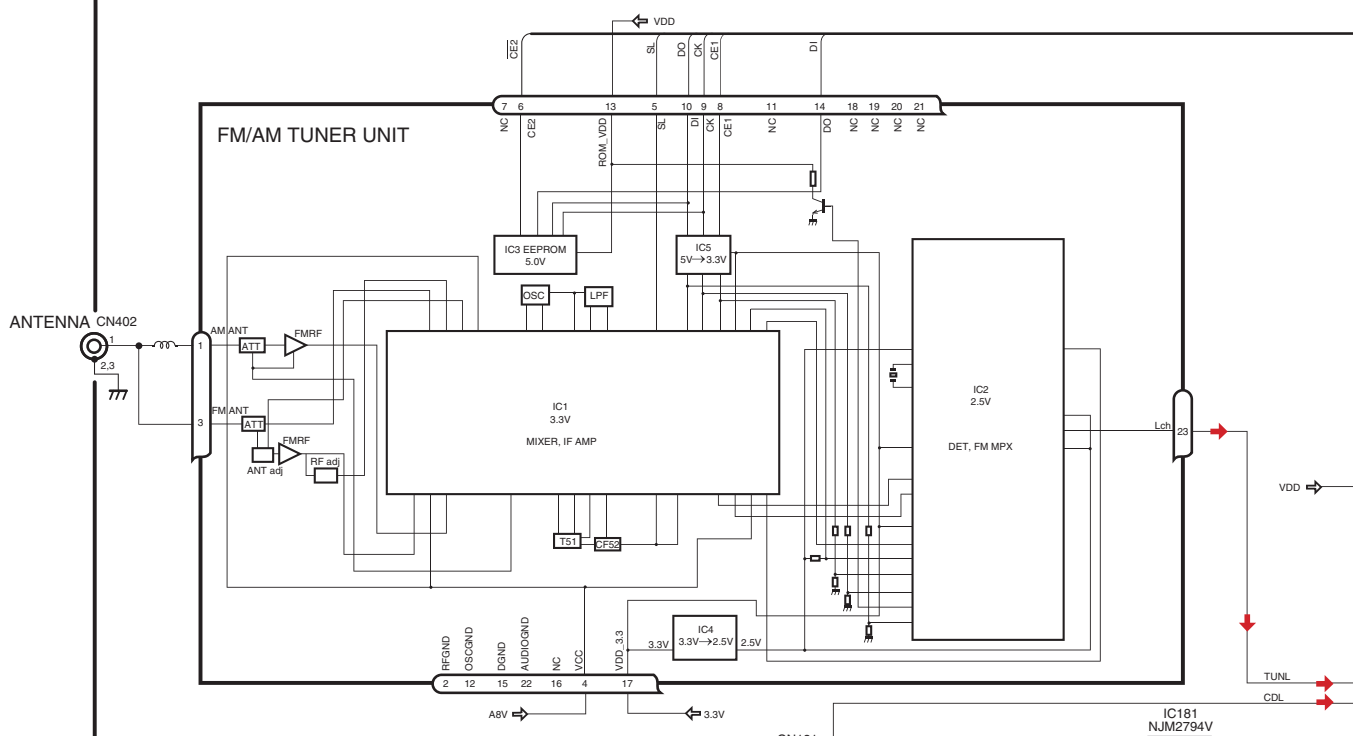


Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
CD pickup lenses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

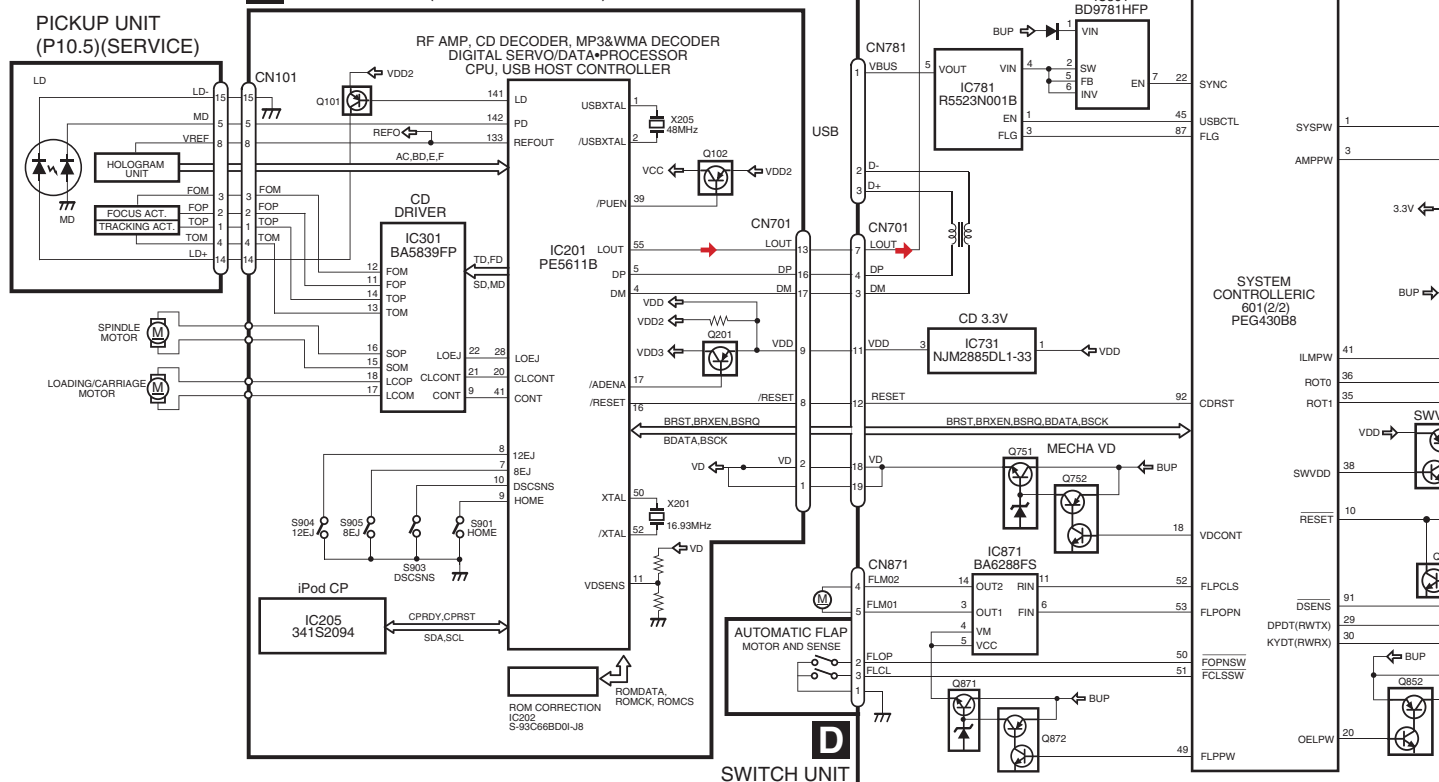
4. BLOCK DIAGRAM

A TUNER AMP UNIT

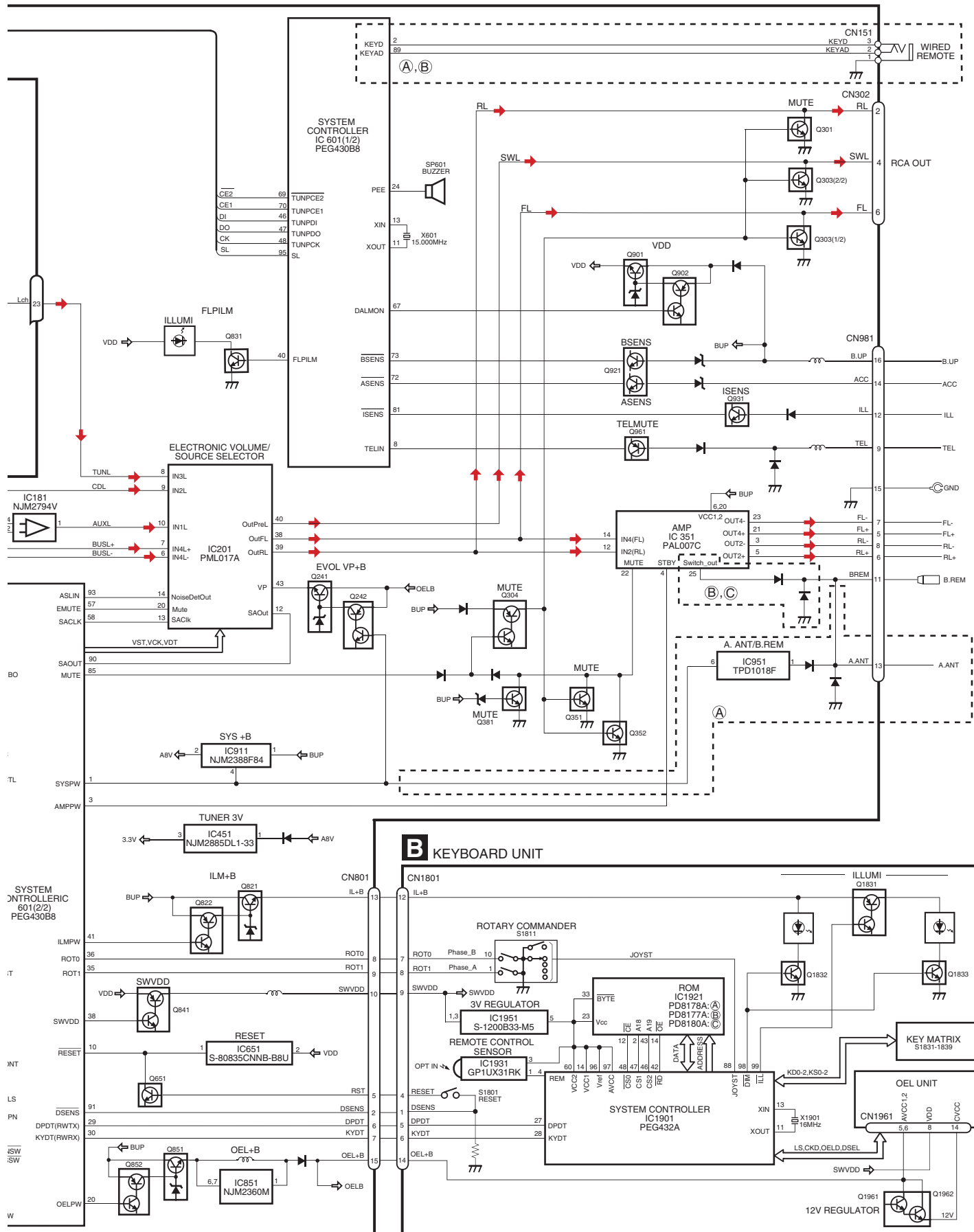


- Ⓐ : DEH-P600UB/XN/UC
- Ⓑ : DEH-P6000UB/XN/UC
- Ⓒ : DEH-P6050UB/XN/ES1, /ES

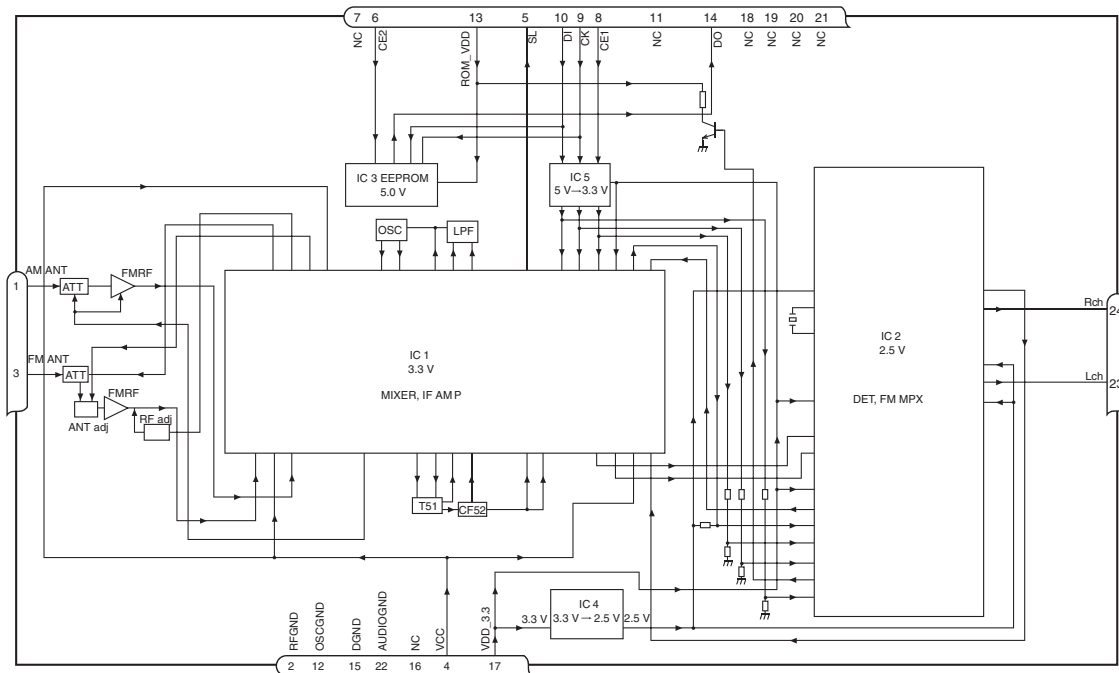
C CD CORE UNIT(S10.5COMP2-iPod)



DEH-P600UB/XN/UC



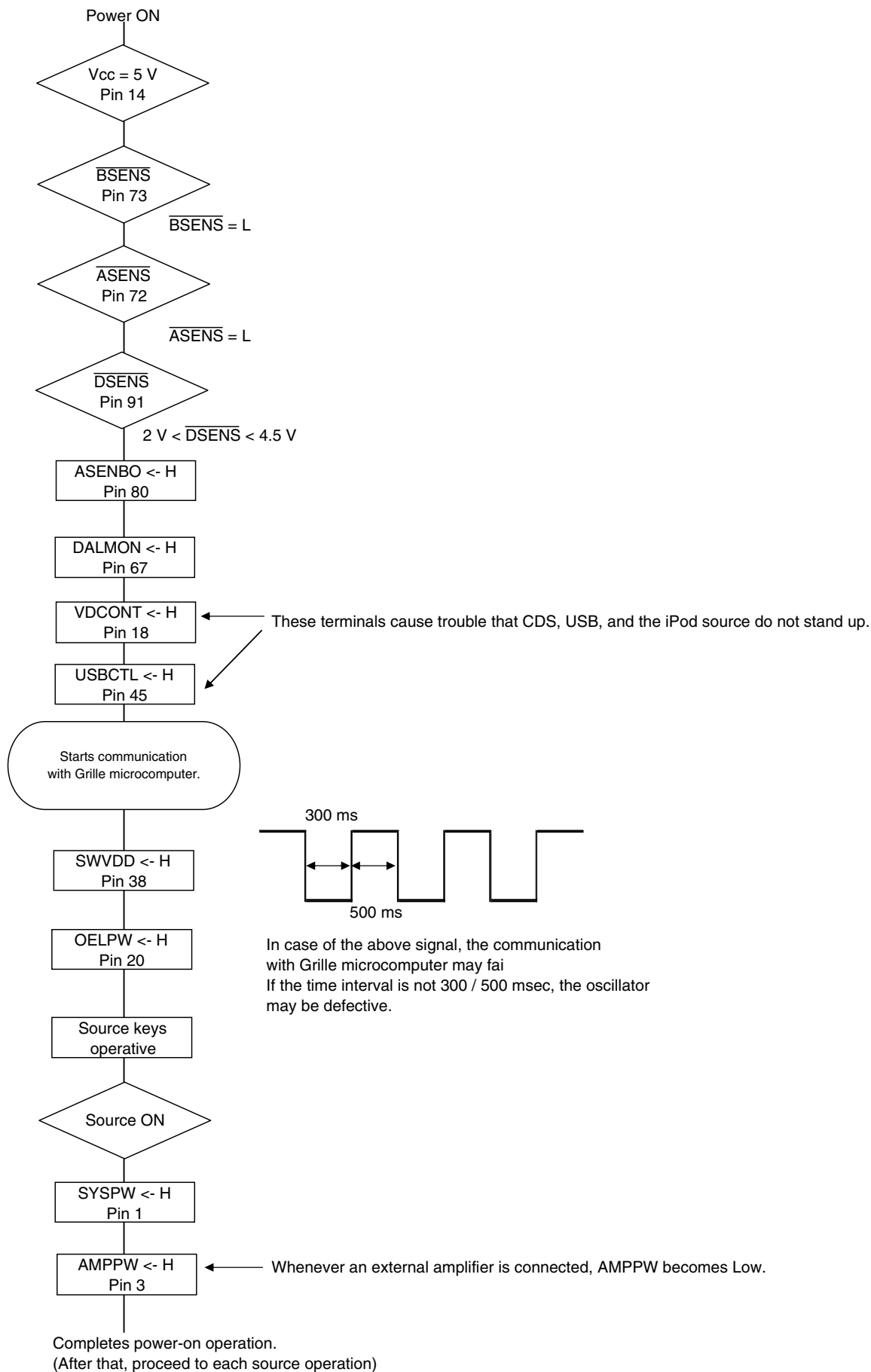
FM/AM Tuner Unit



No.	Symbol	I/O	Explain
1	AMANT	I	AM antenna input AM antenna input high impedance AMANT pin is connected with an all antenna by way of 4.7 μ H. (LAU type inductor) A series circuit including an inductor and a resistor is connected with RF ground for the countermeasure against the hum of power transmission line.
2	RFGND		RF ground Ground of antenna block
3	FMANT	I	FM antenna input Input of FM antenna 75 Ω Surge absorber (DSP-201M-S00B) is necessary.
4	VCC		power supply The power supply for analog block. D.C 8.4 V \pm 0.3 V
5	SL	O	signal level Output of FM/AM signals level
6	CE2	I	chip enable-2 Chip enable for EEPROM "Low" active input
7	NC		non connection Not used
8	CE1	I	chip enable-1 Chip enable for AF•RF "High" active
9	CK	I	clock Clock input
10	DI	I	data in Data input
11	NC		non connection Not used
12	OSCGND		osc ground Ground of oscillator block
13	ROM_VDD		power supply Power supply for EEPROM pin 13 is connected with a power supply of micro computer.
14	DO	O	data out Data output
15	DGND		digital ground Ground of digital block
16	NC		non connection Not used
17	VDD_3.3		power supply The power supply for digital block. 3.3 V \pm 0.2 V
18	NC		non connection Not used
19	NC		non connection Not used
20	NC		non connection Not used
21	NC		non connection Not used
22	AUDIOGND		audio ground Ground of audio block
23	L ch	O	L channel output FM stereo "L-ch" signal output or AM audio output
24	R ch	O	R channel output FM stereo "R-ch" signal output or AM audio output

5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART



5.2 ERROR CODE LIST

● Error Messages

If a CD is not operative or stopped during operation due to an error, the error mode is turned on and cause(s) of the error is indicated with a corresponding number. This arrangement is intended at reducing nonsense calls from the users and also for facilitating trouble analysis and repair work in servicing.

(1) Basic Indication Method

1) When SERRORM is selected for the CSMOD (CD mode area for the system), error codes are written to DMIN (minutes display area) and DSEC (seconds display area). The same data is written to DMIN and DSEC. DTNO remains in blank as before.

2) Head unit display examples

Depending on display capability of LCD used, display will vary as shown below. xx contains the error number.

8-digit display

ERROR-xx

6-digit display

ERR-xx

4-digit display

E-xx

(2) Error Code List

Code	Class	Displayed error code	Description of the code and potential cause(s)
10	Electricity	Carriage Home NG SERVO LSI Com- munication Error	CRG can't be moved to inner diameter. CRG can't be moved from inner diameter. -> Failure on home switch or CRG move mechanism. Communication error between microcomputer and SERVO LSI.
11	Electricity	Focus Servo NG	Focusing not available. -> Stains on rear side of disc or excessive vibrations on REWRITABLE.
12	Electricity	Spindle Lock NG Subcode NG	Spindle not locked. Sub-code is strange (not readable). -> Failure on spindle, stains or damages on disc, or excessive vibrations. A disc not containing CD-R data is found. Turned over disc are found, though rarely. CD signal error.
17	Electricity	Setup NG	AGC protection doesn't work. Focus can be easily lost. -> Damages or stains on disc, or excessive vibrations on REWRITABLE.
30	Electricity	Search Time Out	Failed to reach target address. -> CRG tracking error or damages on disc.
44	Electricity	ALL Skip	Skip setting for all track. (CD-R/RW)
50	Mechanism	CD On Mech Error	Mechanical error during CD ON. -> Defective loading motor, mechanical lock and mechanical sensor.
A0	System	Power Supply NG	Power (VD) is ground faulted. -> Failure on SW transistor or power supply (failure on connector).

Remarks: Mechanical errors are not displayed (because a CD is turned off in these errors).

Unreadable TOC does not constitute an error. An intended operation continues in this case.

Upper digits of an error code are subdivided as shown below:

1x: Setup relevant errors, 3x: Search relevant errors, Ax: Other errors.

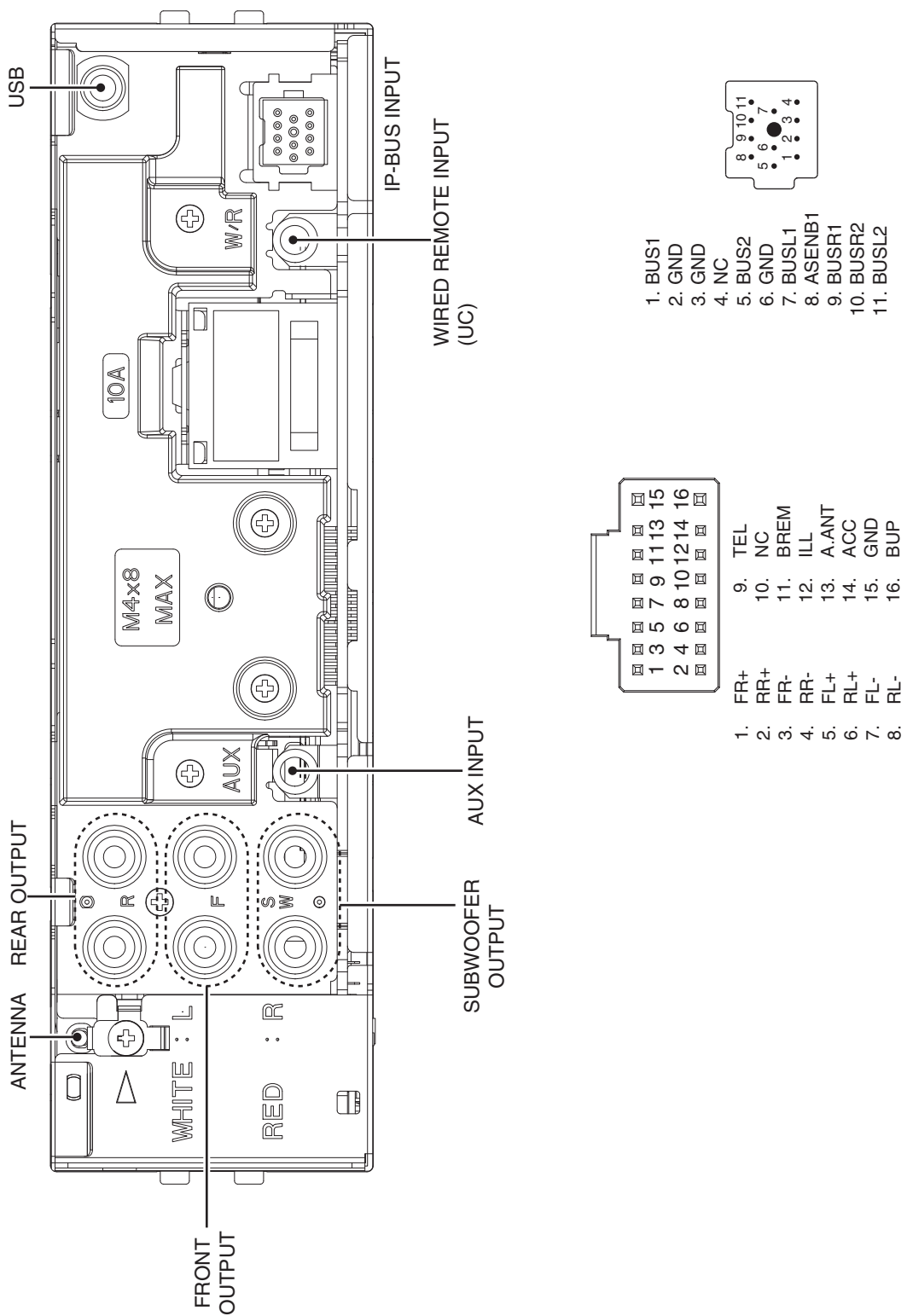
iPod error

Message	Cause	Action
NO SONGS	No songs in the iPod	Transfer the songs to the iPod.
STOP	No songs in the current list	Select a list that contains the songs.
ERROR-19	Communication failure	Disconnect the cable from the iPod. Once the iPod main menu is displayed, connect the cable again.
	iPod failure	Reset the iPod.
ERROR-18 N/A USB	Old version of the iPod	Update the iPod version.
	iPod failure	Reset the iPod.
ERROR-16	Old version of the iPod	Update the iPod version.
	iPod failure	Disconnect the cable from the iPod. Once the iPod main menu is displayed, connect the cable again.
		Reset the iPod.
		Turn the ignition switch OFF and ON.
		Malfunction of iPod recognition IC.
CHECK USB	iPod is not charged but operates correctly.	Check if the connection cable for the iPod shorted out. After checking, switch the ignition key OFF and ON, or disconnect the iPod and connect again.

USB error

Message	Cause	Action
NO AUDIO	No songs in the USB device	Transfer the songs to the USB device.
	USB memory with security enabled is connected	Follow the USB memory instructions to disable the security.
TRK SKIPPED	The connected USB device contains WMA files that are protected by DRM	Play an audio file not protected by DRM.
PROTECT	All the files in the USB device are protected by DRM	Transfer the songs not protected by DRM to the USB device.
N/A USB	The connected USB device is not supported by this unit	Connect a USB device that is compliant as a Mass Storage Class.
CHK USB	The USB connector or the USB cable is short-circuited	Confirm the USB connector or the USB cable.
	The connected USB device consumes more than 500 mA (max. allowable current)	Confirm the USB device.
ERROR-19	Communication failure	Turn the ignition switch OFF and ON.
		Disconnect the USB device, and connect it again.
		Change to a different source. Then, return to the USB.
ERROR-23	USB device is not formatted with FAT16 or FAT32	Format the USB device with FAT16 or FAT32.

5.3 CONNECTOR FUNCTION DESCRIPTION



6. SERVICE MODE

6.1 TEST MODE

Double Key Allocation List

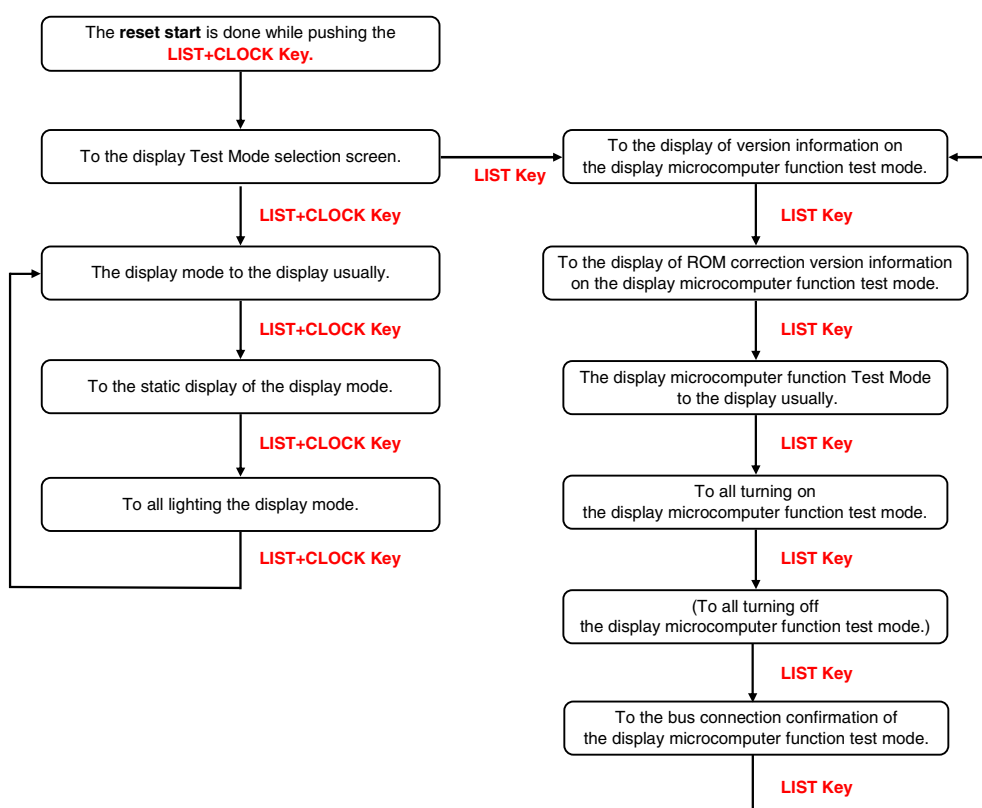
Double Key	Mode Name
S.Rtrv + DISP	CD Test Mode
LIST + CLOCK	Display Test Mode
DISP + BAND/ESC	(Eject Lock)

The mode in () is except test mode.

6.2 DISPLAY TEST MODE

Display Test Mode

Restarted pushing reset while pushing the **LIST+CLOCK key** then the screen is changed to the display test mode.



Version Information Display

0	8	16	24	32	40	48	56	64	72	80	88	96	04	12	20	28	36	44	52	60
8	V	e	r	s	i	o	n	I	n	f	o	.								
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	D	I	S	P		V	#	.	#	#										
32	P	I	C	T		V	!	.	!	!										
40	S	Y	S		V	*	.	*	*											
48																				

PD number of Display microcomputer and Image ROM is not displayed.

: Display microcomputer Ver.Info
!!! : Image ROM Ver.Info
*** : System microcomputer Ver.Info

<Unit number display>

When the Unit number is CWW1453, it is displayed as 1453.
(Only the number from 0 to 9 can be displayed by four digits.)

*The display of the PD number disappears.

4

A

E

E

- 4

7. DISASSEMBLY

● Removing the Keyboard Unit (Fig.1, 2)

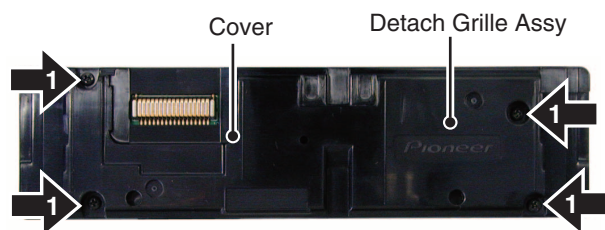
Remove the Knob Unit.(Fig.1)

1 Remove the four screws.(Fig.2)

Remove the Cover
and then remove the Keyboard Unit.



Knob Unit



Cover

Detach Grille Assy

Fig.1

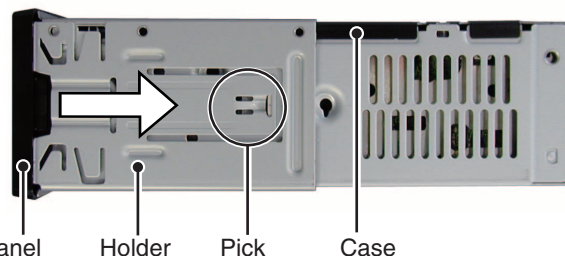
Fig.2

● Removing the Holder, Panel and Case (Fig.3)

Take off the pick of left and right
and then a Holder slide to the arrow course.

Remove the Panel.

Remove the Case.



Panel

Holder

Pick

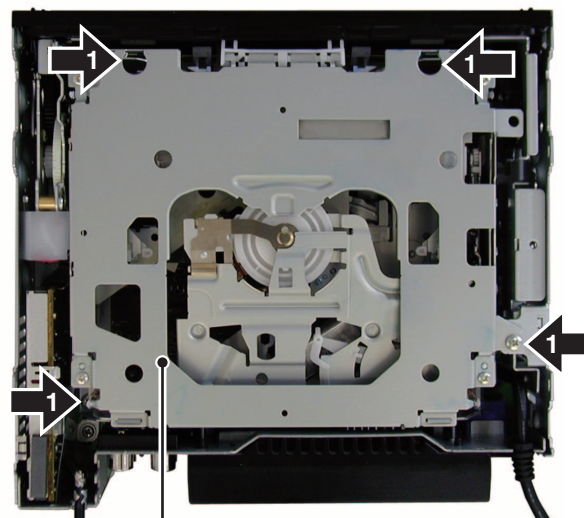
Case

Fig.3

● Removing the CD Mechanism Module (Fig.4)

1 Remove the four screws.

Disconnect the cable
and then remove the CD Mechanism Module.



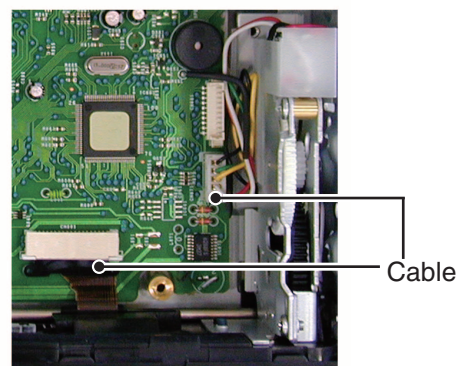
CD Mechanism Module

Fig.4

● Removing the Panel Assy(Fig.5, 6, 7)

Disconnect the two cables.(Fig.5)

Follw next

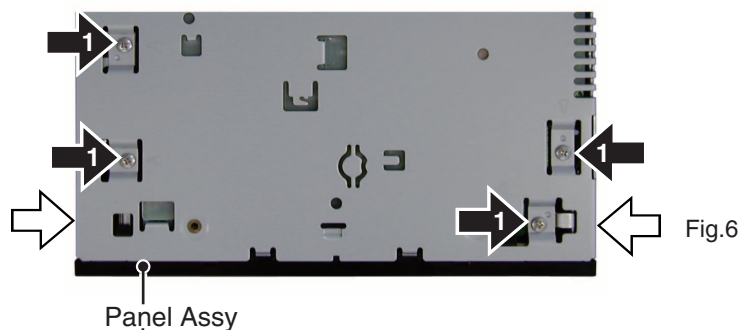


Cable

Fig.5

A The continuance from the page of before.

- ➡ 1 Remove the four screws.(Fig.6)



Push the place of the arrows and then remove Panel Assy.(Fig.6, 7)

B

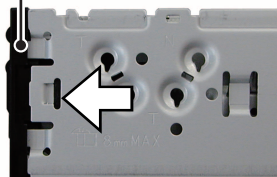


Fig.7

● Removing the Switch Unit(Fig.8, 9)

- ➡ 1 Remove the screw.(Fig.8)
- ➡ 2 Remove the three screws and then the Holder.(Fig.8)
- ➡ 3 Remove the two screws and then remove the Switch Unit.(Fig.9)

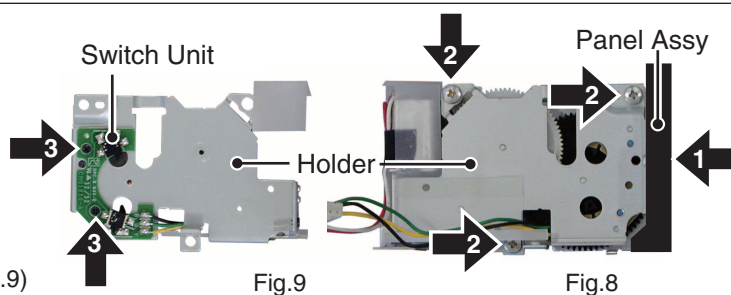


Fig.9

Fig.8

● Removing the Tuner Amp Unit(Fig.10, 11)

- ➡ 1 Remove the screw and then remove the Holder.(Fig.10)
- ➡ 2 Remove the screw.(Fig.10)
- ➡ 3 Remove the screws.(Fig.11)
- ➡ 4 Remove the screw and then remove the Holder.(Fig.11)
- ➡ 5 Straighten the tabs at three locations indicated and then remove the Tuner Amp Unit. (Fig.11)



Fig.10

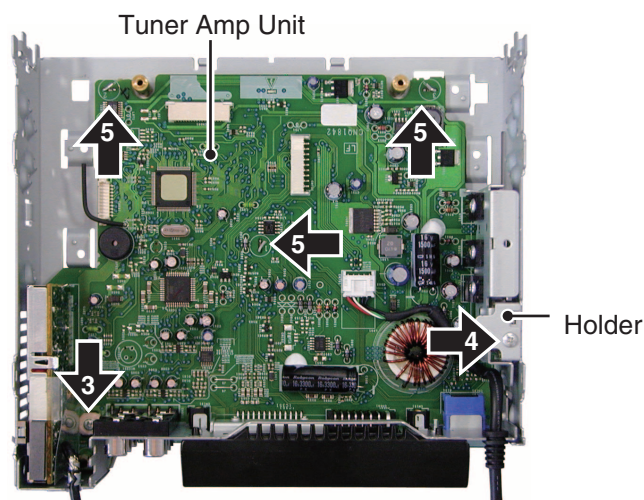
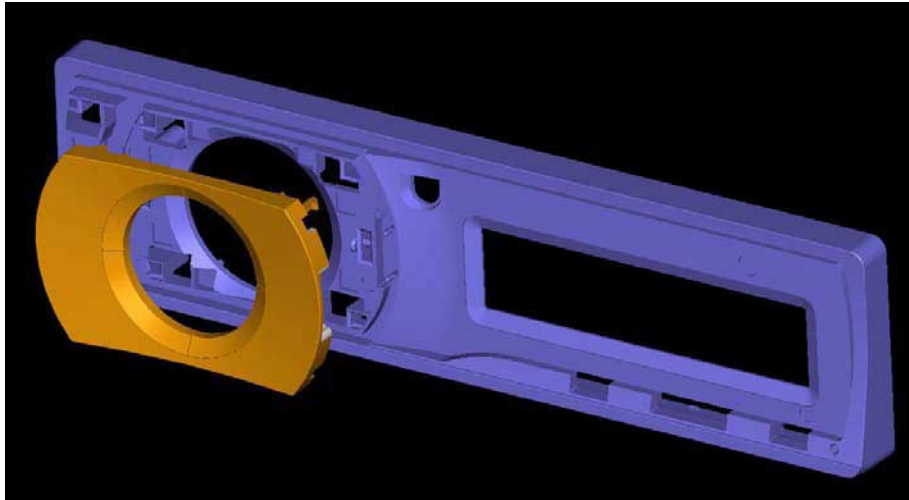


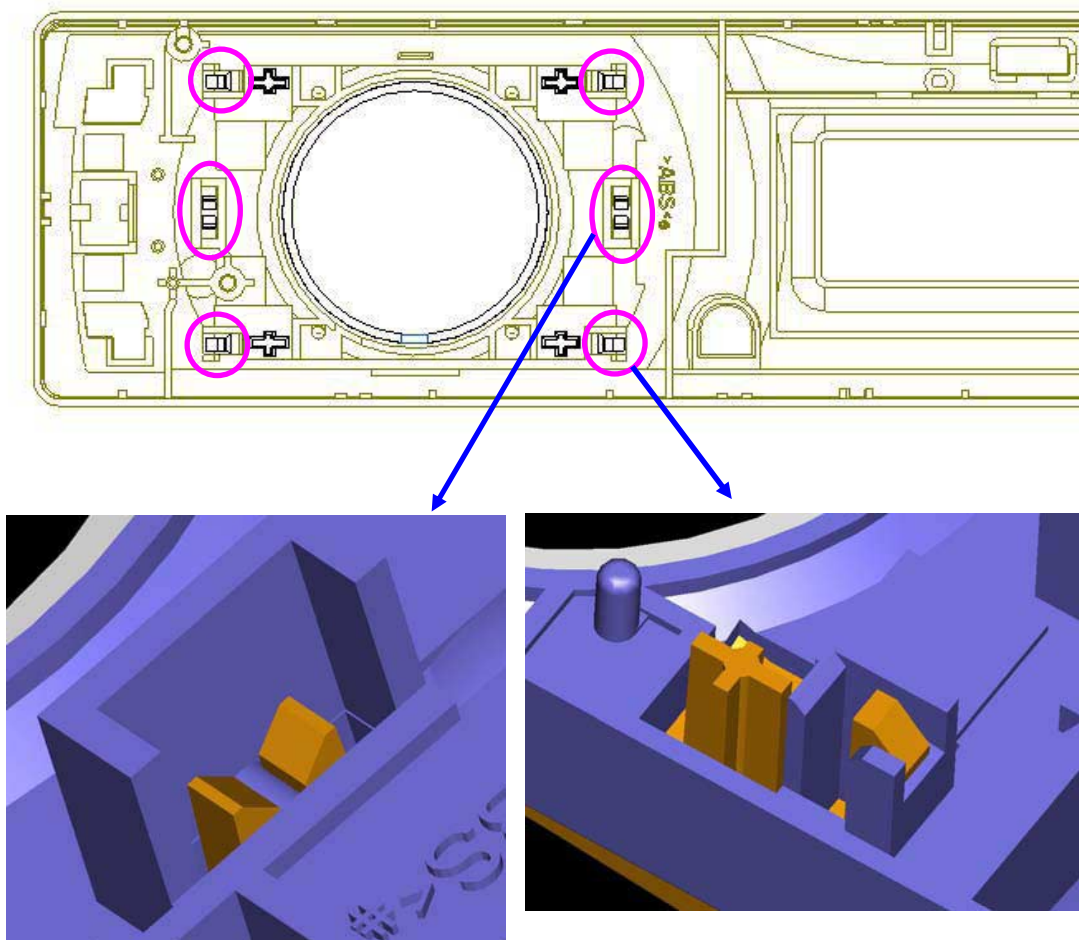
Fig.11

F

●How from grille to remove plate button.



①There are six hooks to remove.

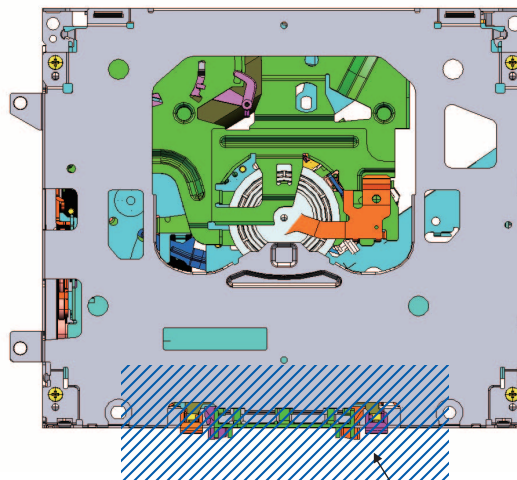


The hook in six places in total is removed by the thin one such as tweezers.

* The hook breaks when forcibly removing.

● How to hold the Mechanism Unit

1. Hold the Upper and Lower Frames.
2. Do not hold the front portion of the Upper Frame, because it is not very solid.

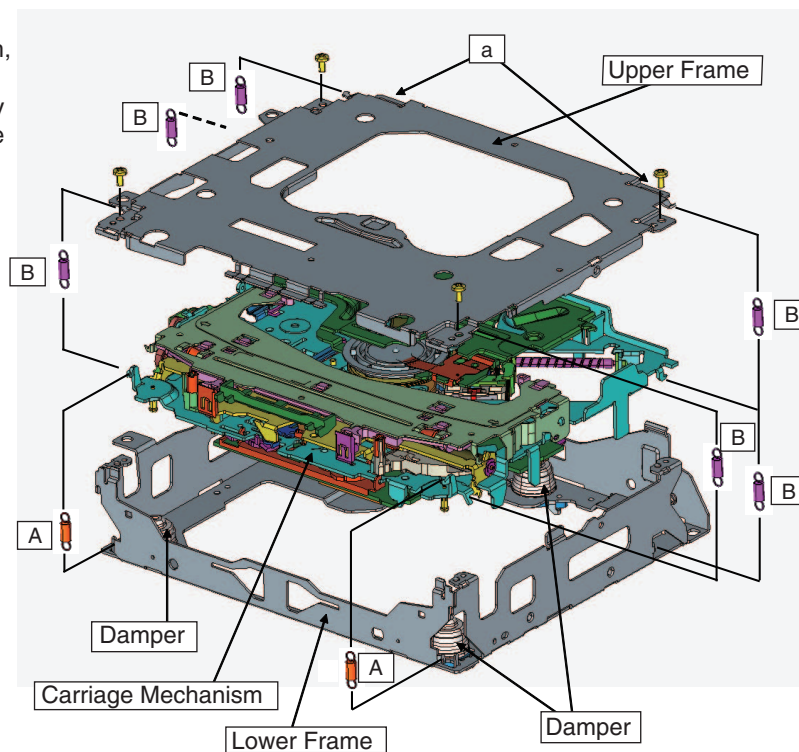


Do not squeeze this area.

● Removing the Upper and Lower Frames

1. With a disc inserted and clamped in the mechanism, remove the two Springs (A), the six Springs (B), and the four Screws.
2. Turn the Upper Frame using the part "a" as a pivot, and remove the Upper Frame.
3. While lifting the Carriage Mechanism, remove it from the three Dampers.

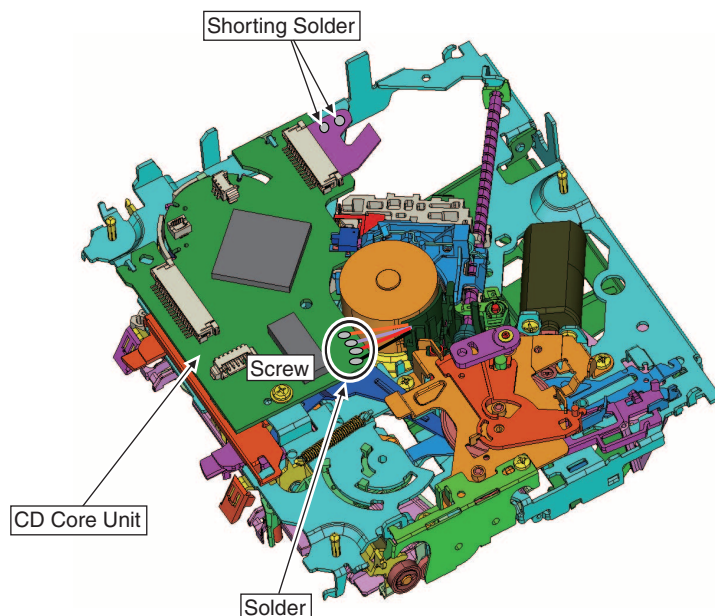
Caution: When assembling, be sure to apply some alcohol to the Dampers and assemble the mechanism in a clamped state.



● How to remove the CD Core Unit

1. Apply Shorting Solder to the flexible cable of the Pickup, and disconnect it from the connector.
2. Unsolder the four leads, and loosen the Screw.
3. Remove the CD Core Unit.

Caution: When assembling the CD Core Unit, assemble it with the SW in a clamped state so as not to damage it.

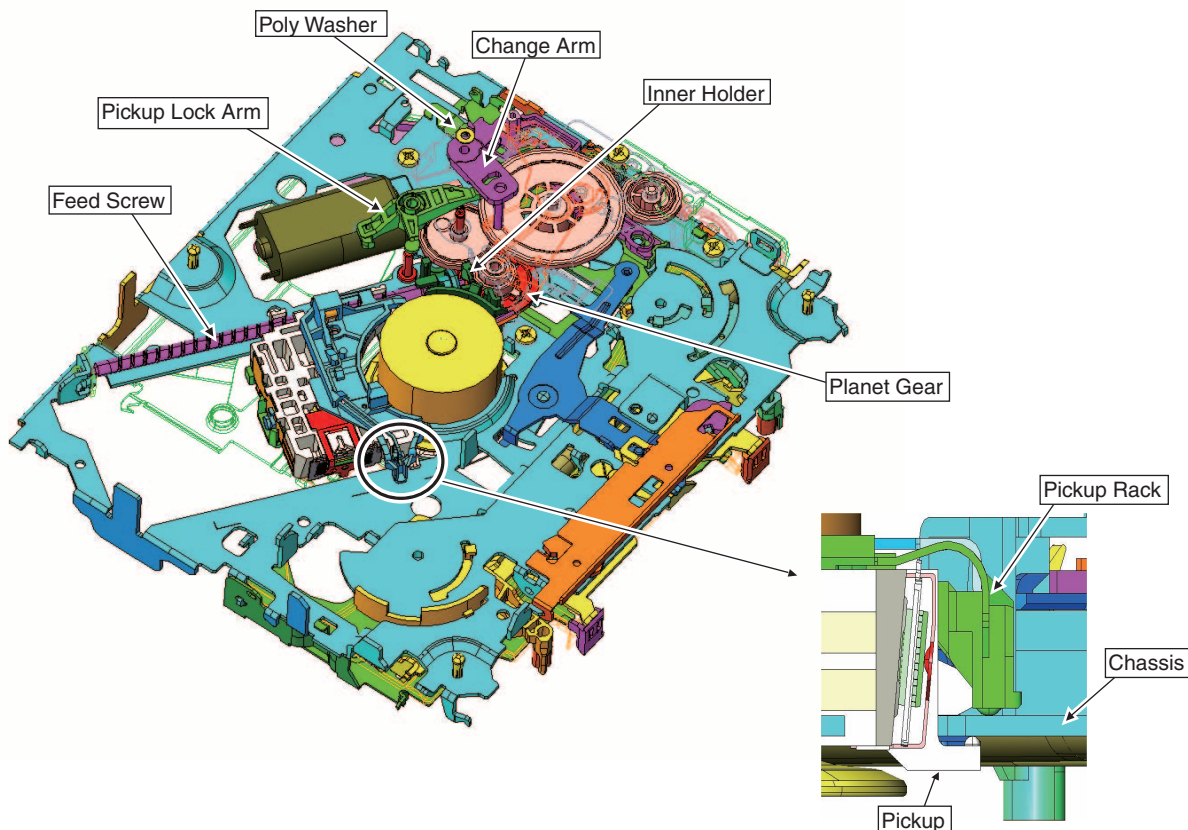


● How to remove the Pickup Unit

1. Make the system in the carriage mechanism mode, and have it clamped.
2. Remove the CD Core Unit and remove the leads from the Inner Holder.
3. Remove the Poly Washer, Change Arm, and Pickup Lock Arm.
4. While releasing from the hook of the Inner Holder, lift the end of the Feed Screw.

Caution: When assembling, move the Planet Gear to the load/eject position before setting the Feed Screw in the Inner Holder.

Assemble the sub unit side of the Pickup, taking the plate (Chassis) in-between. When treating the leads of the Load Carriage Motor Assy, do not make them loose over the Feed Screw.



8. EACH SETTING AND ADJUSTMENT

8.1 CD ADJUSTMENT

1) Cautions on adjustments

- In this product the single voltage (3.3V) is used for the regulator. The reference voltage is the REFO1 (1.65 V) instead of the GND.

If you should mistakenly short the REFO1 with the GND during adjustment, accurate voltage will not be obtained, and the servo's misoperation will apply excessive shock to the pickup. To avoid such problems:

- a. Do not mix up the REFO1 with the GND when connecting the (-) probe of measuring instruments. Especially on an oscilloscope, avoid connecting the (-) probe for CH1 to the GND.
- b. In many cases, measuring instruments have the same potential as that for the (-) probe. Be sure to set the measuring instruments to the floating state.
- c. If you have mistakenly connected the REFO1 to the GND, turn off the regulator or the power immediately.

- Before mounting and removing filters or leads for adjustment, be sure to turn off the regulator.

- For stable circuit operation, keep the mechanism operating for about one minute or more after the regulator is turned on.

- In the test mode, any software protections will not work. Avoid applying any mechanical or electrical shock to the mechanism during adjustment.

- The RFI and RFO signals with a wide frequency range are easy to oscillate. When observing the signals, insert a resistor of 1k ohms in series.

- The load and eject operation is not guaranteed with the mechanism upside down. If the mechanism is blocked due to mistaken eject operation, reset the product or turn off and on the ACC to restore it.

2) Test mode

This mode is used to adjust the CD mechanism module.

- To enter the test mode.
While pressing the 4 and 6 keys at the same time, reset.
- To exit from the test mode.
Turn off the ACC and back up.

Notes:

- a. During ejection, do not press any other keys than the EJECT key until the loaded disc is ejected.
- b. If you have pressed the (->) key or (-<) key during focus search, turn off the power immediately to protect the actuator from damage caused by the lens stuck.
- c. For the TR jump modes except 100TR, the track jump operation will continue even if the key is released.
- d. For the CRG move and 100TR jump modes, the tracking loop will be closed at the same time when the key is released.
- e. When the power is turned off and on, the jump mode is reset to the singleTR (91), the RF amp gain is set to 0 dB, and the auto-adjustment values are reset to the default settings.

8.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT



• Note :

The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

• Purpose :

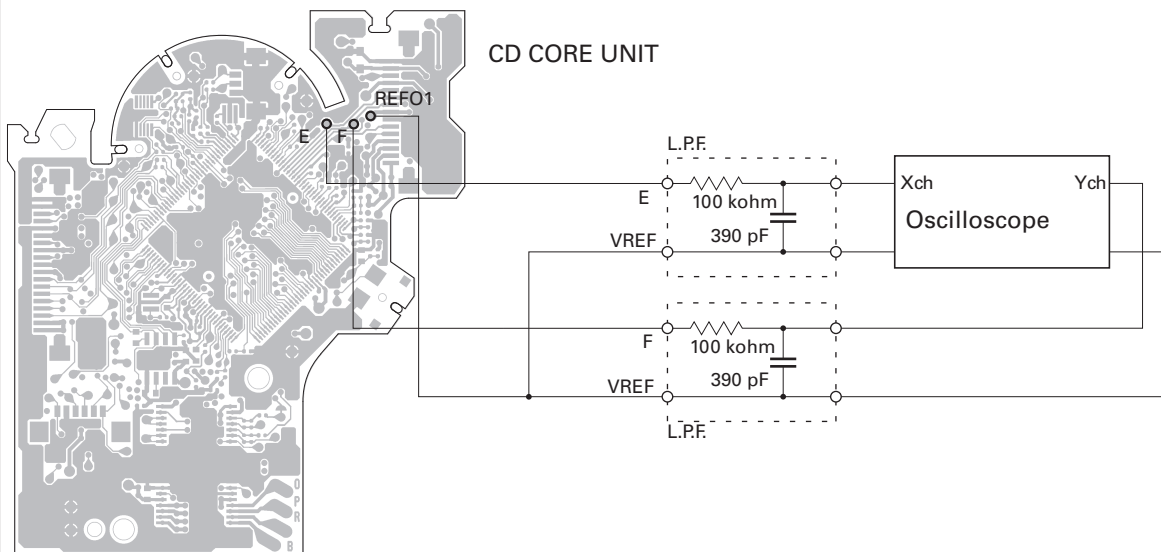
To check that the grating is within an acceptable range when the PU unit is changed.

• Symptoms of Mal-adjustment :

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

• Method :

- | | |
|-----------------------|----------------------------|
| • Measuring Equipment | • Oscilloscope, Two L.P.F. |
| • Measuring Points | • E, F, REFO1 |
| • Disc | • TCD-782 |
| • Mode | • TEST MODE |



• Checking Procedure

1. In test mode, load the disc and switch the 3 V regulator on.
2. Using the -> and <- buttons, move the PU unit to the innermost track.
3. Press key 3 to close focus, the display should read "91". Press key 2 to implement the tracking balance adjustment the display should now read "81". Press key 3. The display will change, returning to "81" on the fourth press.
4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75 degrees. Refer to the photographs supplied to determine the phase angle.
5. If the phase difference is determined to be greater than 75 degrees try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75 degrees then the mechanism should be judged to be at fault.

• Note

Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

• Hint

Reloading the disc changes the clamp position and may decrease the "wobble".

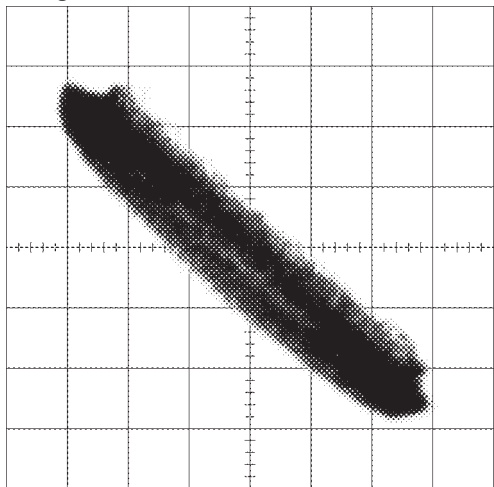
Grating waveform

Ech -> Xch 20 mV/div, AC

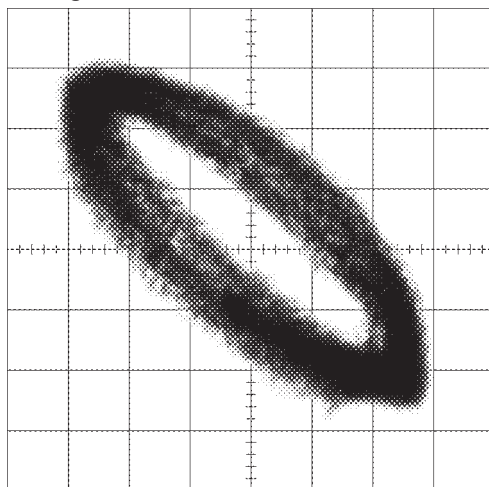
Fch -> Ych 20 mV/div, AC

A

0 degrees

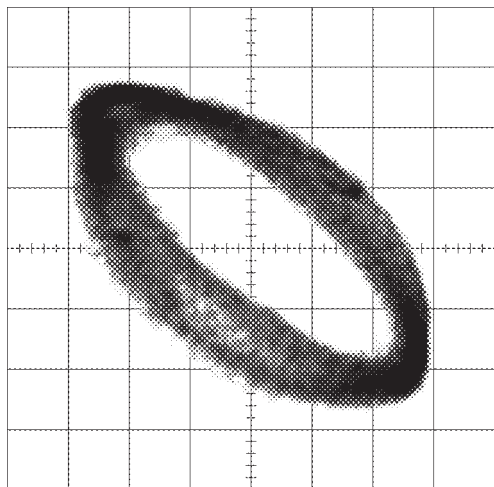


30 degrees

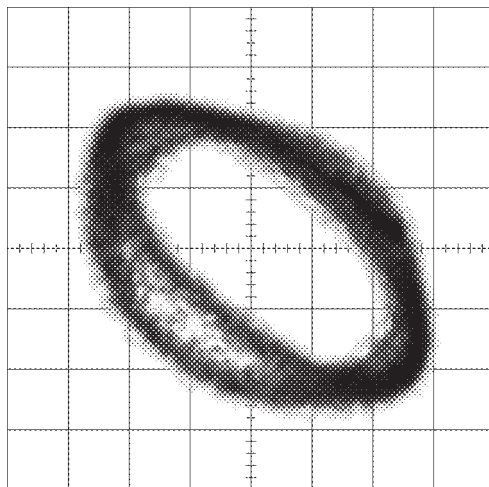


B

45 degrees



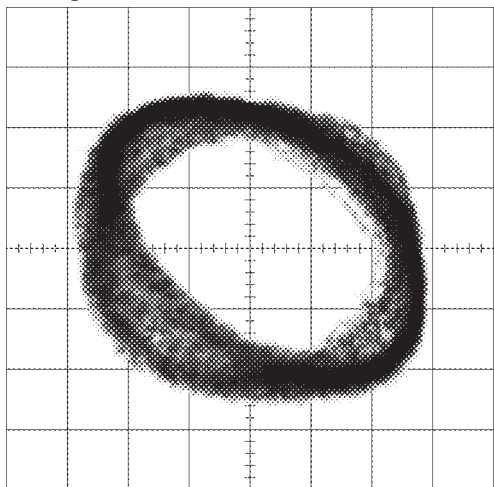
60 degrees



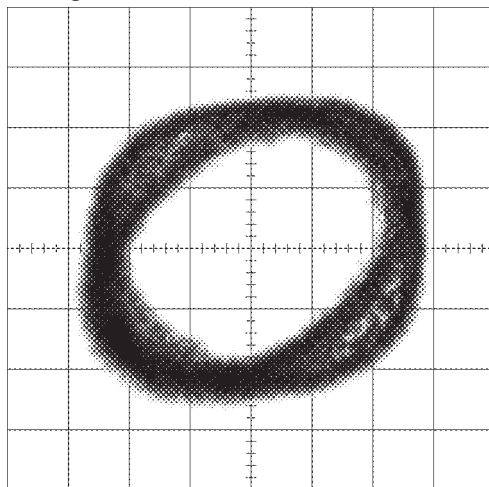
C

D

75 degrees



90 degrees



E

F

8.3 PCL OUTPUT CONFIRMATION



● PCL output

In the normal operation mode (with the detachable panel installed, the ACC switched ON, the standby mode cancelled), shift the STEST IC601(Pin 86) terminal to H.

The clock signal is output from the PCL1 terminal IC601(Pin 37).

The frequency of the clock signal is 468.8 kHz that is one 32th of the fundamental frequency.

4

A

- B



D

5

Mark No.	Description	Part No.
20	Quick Start Guide	See Language table (3)
21-1	Installation Manual	See Contrast table (2)
21-2	Caution Card	CRP1310
* 21-3	Caution Card	See Contrast table (2)
* 21-4	Caution Card	CRP1366
* 21-5	Caution Card	XRP7002
* 21-6	Caution Card	See Contrast table (2)
* 21-7	Warranty Card	See Contrast table (2)
* 21-8	Service Network	See Contrast table (2)
22	Cord Assy	XDP7004
23	Cord Assy	See Contrast table (2)
24	CD-ROM (Operation Manual)	See Contrast table (2)
25	Owner's Manual Assy	See Contrast table (2)
26	Cord Assy	CDP1040

(2) CONTRAST TABLE

DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC, DEH-P6050UB/XN/ES and DEH-P6050UB/XN/ES1 are constructed the same except for the following:

Mark	No.	Description	DEH-P600UB/XN/UC	DEH-P6000UB/XN/UC	DEH-P6050UB/XN/ES	DEH-P6050UB/XN/ES1
*	1	Accessory Assy	CEA7316	CEA7316	CEA7317	CEA7317
	2	Screw Assy	CEA5322	CEA5322	CEA3849	CEA3849
	6	Screw	JPZ20P060FTB	JPZ20P060FTB	Not used	Not used
	12	Polyethylene Bag	CEG1368	CEG1368	CEG1227	CEG1227
	13	Unit Box	CHG6390	CHG6389	CHG6392	CHG6408
	14	Contain Box	CHL6390	CHL6389	CHL6392	CHL6408
	21-1	Installation Manual	CRD4255	CRD4257	CRD4260	CRD4260
*	21-3	Caution Card	CRP1365	CRP1365	CRP1364	CRP1364
*	21-6	Caution Card	Not used	CRP1294	Not used	Not used
*	21-7	Warranty Card	CRY1070	CRY1246	Not used	CRY1250
*	21-8	Service Network	Not used	Not used	Not used	CRY1251
	23	Cord Assy	CDP1041	Not used	Not used	Not used
	24	CD-ROM (Operation Manual)	CPJ1215	CPJ1216	CPJ1217	CPJ1217
	25	Owner's Manual Assy	CXC9691	CXC9692	CXC9693	CXC9693

(3) Language of Quick Start Guide

Mark	DEH-P600UB/XN/UC	DEH-P6000UB/XN/UC	Language
*	CRB2608	CRB2610	English
*	CRB2609	CRB2611	French
Mark	DEH-P6050UB/XN/ES, /ES1		Language
*	CRB2612		English
*	CRB2613		Spanish
*	CRB2614		Portuguese(B)
*	CRB2615		Traditional Chinese
*	CRB2616		Arabic

(4) CONTENTS OF CD-ROM (Operation Manual)

Mark	DEH-P600UB/XN/UC (CPJ1215)	DEH-P6000UB/XN/UC (CPJ1216)	Language
*	CRB2569	CRB2571	English
*	CRB2570	CRB2572	French
Mark	DEH-P6050UB/XN/ES, /ES1 (CPJ1217)		Language
*	CRB2573		English
*	CRB2574		Spanish
*	CRB2575		Portuguese(B)
*	CRB2576		Traditional Chinese
*	CRB2577		Arabic

All operation manuals are supplied in PDF files by the CD-ROM. No printed papers are available.

9.2 EXTERIOR(1)

A

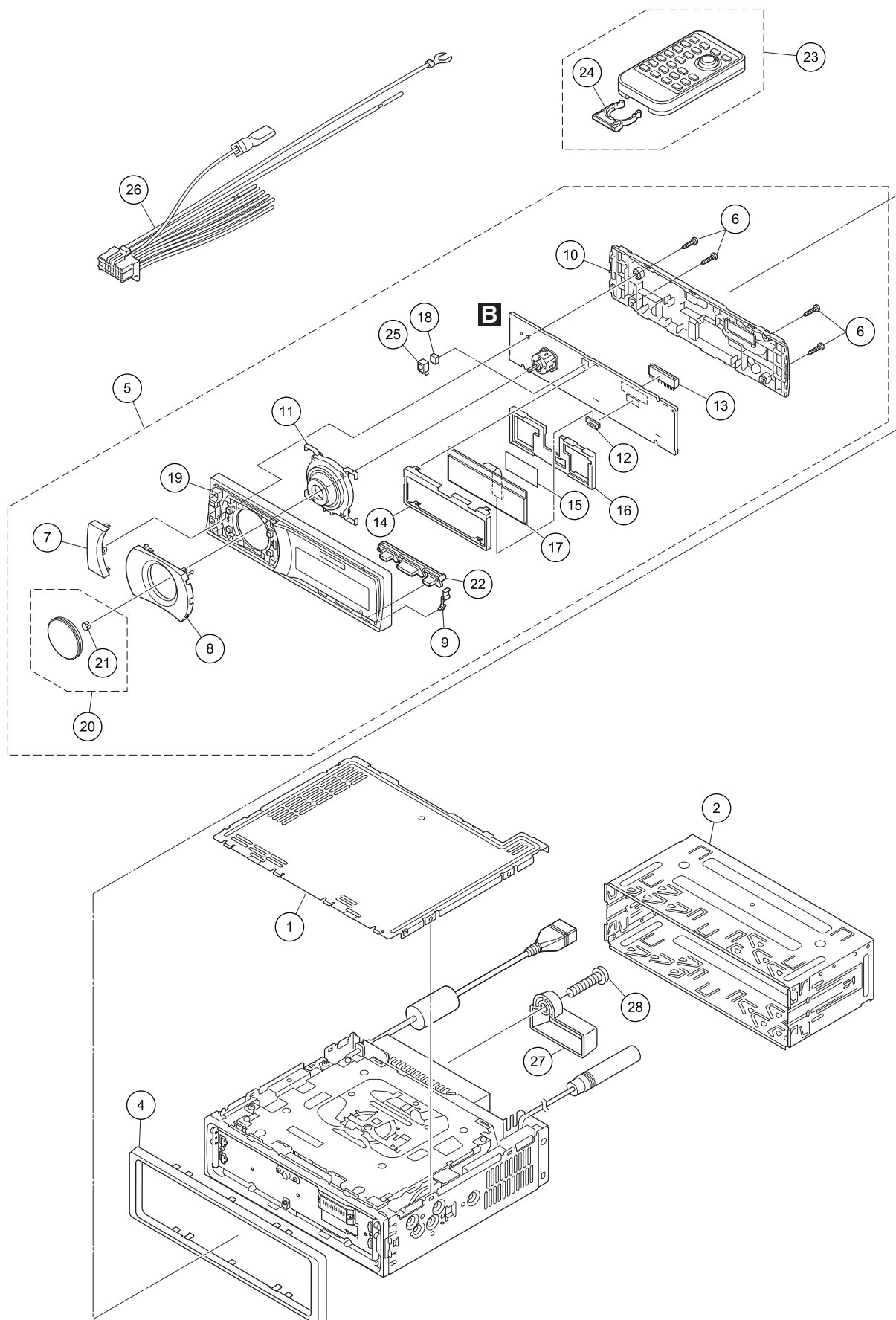
B

C

D

E

F



Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Case	CNB3466	15		Double Side Tape	CNM8673
	2	Holder	CND3598				
	3		16		Holder	CNV9886
	4	Panel	See Contrast tabel (2)	17		OEL Unit	MXS8260
	5	Detach Grille Assy	See Contrast tabel (2)	18		Spacer	CNN2403
				19		Grille Unit	See Contrast tabel (2)
	6	Screw	BPZ20P080FTB	20		Knob Unit	See Contrast tabel (2)
	7	Button(SRC, BAND)	CAI1661				
(2)	8	Button Unit (DISP, S.Rtrv, RDM, SW)	See Contrast tabel	21		Spring	XBL7005
	9	Button(Reset)	CAI1676	22		Button Unit(CLOCK, LIST, OPEN)	CXC8936
	10	Cover	CNS9294	23		Remote Control Unit	CXC9113
				24		Cover	CZN5357
	11	Lighting Conductor	CNV9883	25		IC(IC1931)	GP1UX31RK
	12	Connector(CN1961)	CKS5545				
	13	Connector(CN1801)	CKS5662	26		Cord Assy	XDP7004
	14	Holder	CND4267	27		Holder	See Contrast tabel (2)
				28		Screw	See Contrast tabel (2)

(2) CONTRAST TABLE
 DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC, DEH-P6050UB/XN/ES and DEH-P6050UB/XN/ES1 are constructed the same except for the following:

Mark	No.	Description	DEH-P600UB/XN/UC	DEH-P6000UB/XN/UC	DEH-P6050UB/XN/ES DEH-P6050UB/XN/ES1
	4	Panel	CNS9342	CNS9319	CNS9319
	5	Detach Grille Assy	CXC8930	CXC8929	CXC8931
	8	Button Unit (DISP, S.Rtrv, RDM, SW)	CXC8880	CAI1672 (Button)	CXC9427
	19	Grille Unit	CXC8879	CXC8873	CXC8874
	20	Knob Unit	CXC8883	CXC8911	CXC8883
	27	Holder	Not used	CNV7619	Not used
	28	Screw	Not used	BMZ40P140FTC	Not used

1 2 3 4

9.3 EXTERIOR(2)

A

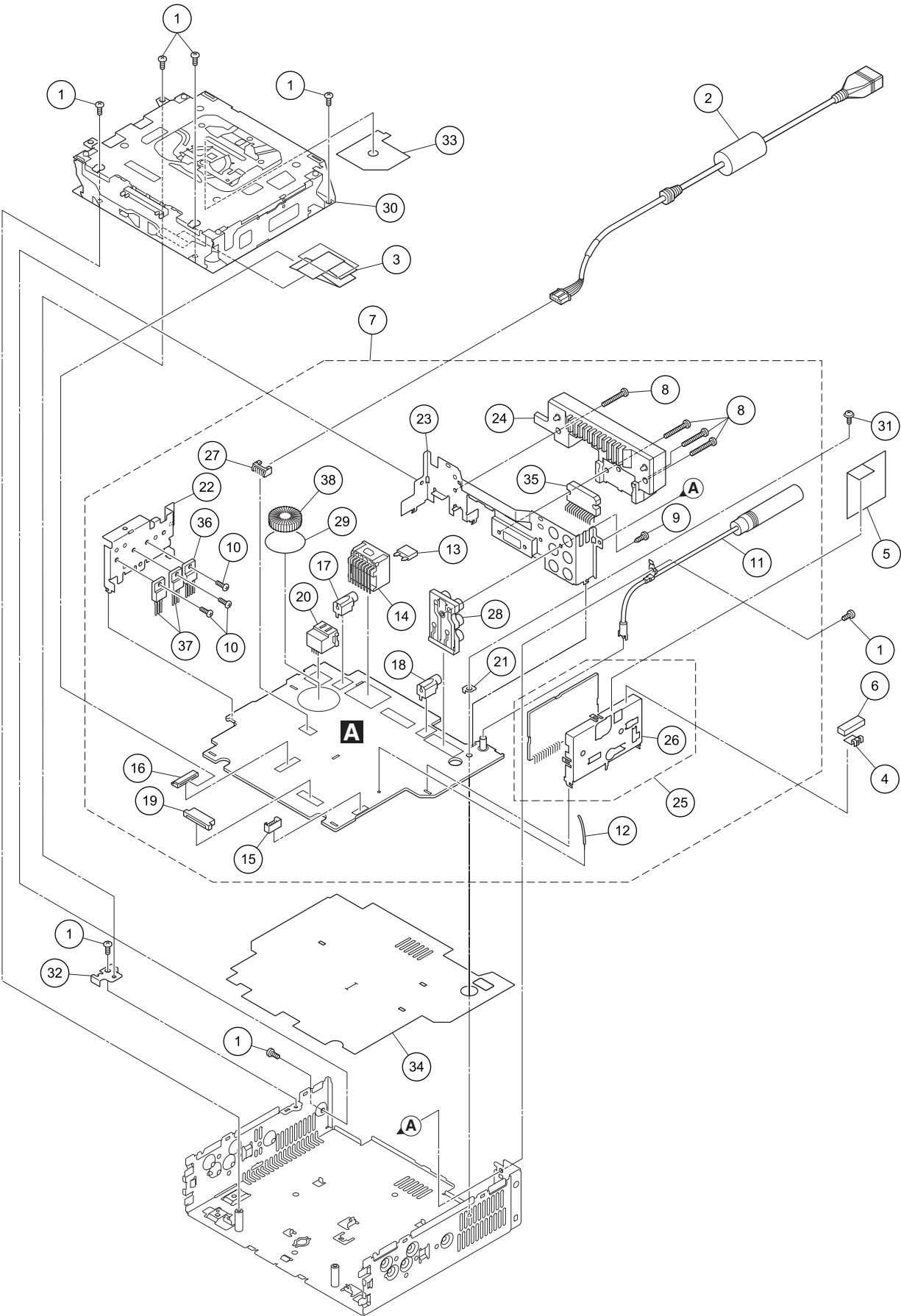
B

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F



Mark No.	Description	Part No.	Mark No.	Description	Part No.	
1	Screw	BSZ26P060FTC	21	Holder(CN401)	CNC5399	A
2	Cord Assy	CDE8351	22	Holder	CND3133	
3	Cable	CDE8549	23	Holder	See Contrast table (2)	
4	Earth Plate	CND2171	24	Heat Sink	CNR1940	
5	Insulator	CNM8790	25	FM/AM Tuner Unit(Y401)	CWE2098	
6	Cushion	CNM9126	26	Holder	CND4324	B
7	Tuner Amp Unit	See Contrast table (2)	27	Plug(CN781)	KM200NA5L	
8	Screw	BMZ26P180FTC	28	Pin Jack(CN302)	XKB7001	
9	Screw	BPZ26P070FTC	29	Insulator	XNM7031	
10	Screw	BSZ26P060FTC	30	CD Mechanism Module(S10.5)	CXK5770	
11	Antenna Cable(CN402)	CDH1336	31	Screw	ISS26P055FTC	C
12	Clamper	CEF1048	32	Holder	XNC7014	
⚠ 13	Fuse(10 A)	YEK5001	33	Insulator	XNM7106	
14	Plug(CN981)	CKM1376	34	Insulator	XNM7114	
15	Plug(CN871)	CKS-786	35	IC(IC351)	PAL007C	
16	Connector(CN701)	CKS3833	36	IC(IC911)	NJM2388F84	D
17	Connector(CN151)	See Contrast table (2)	37	Transistor(Q751,Q901)	2SD2396	
18	Connector(CN181)	CKS4124	38	Choke Coil(L981)	CTH1280	
19	Connector(CN801)	CKS4811				
20	Connector(CN101)	CKS5271				

(2) CONTRAST TABLE
 DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC, DEH-P6050UB/XN/ES and DEH-P6050UB/XN/ES1
 are constructed the same except for the following:

Mark	No.	Description	DEH-P600UB/XN/UC	DEH-P6000UB/XN/UC	DEH-P6050UB/XN/ES DEH-P6050UB/XN/ES1
	7	Tuner Amp Unit	CWN3149	CWN3148	CWE3150
	17	Connector(CN151)	CKS4124	CKS4124	Not used
	23	Holder	CND4255	CND4255	CND4256

9.4 DRIVE UNIT

A

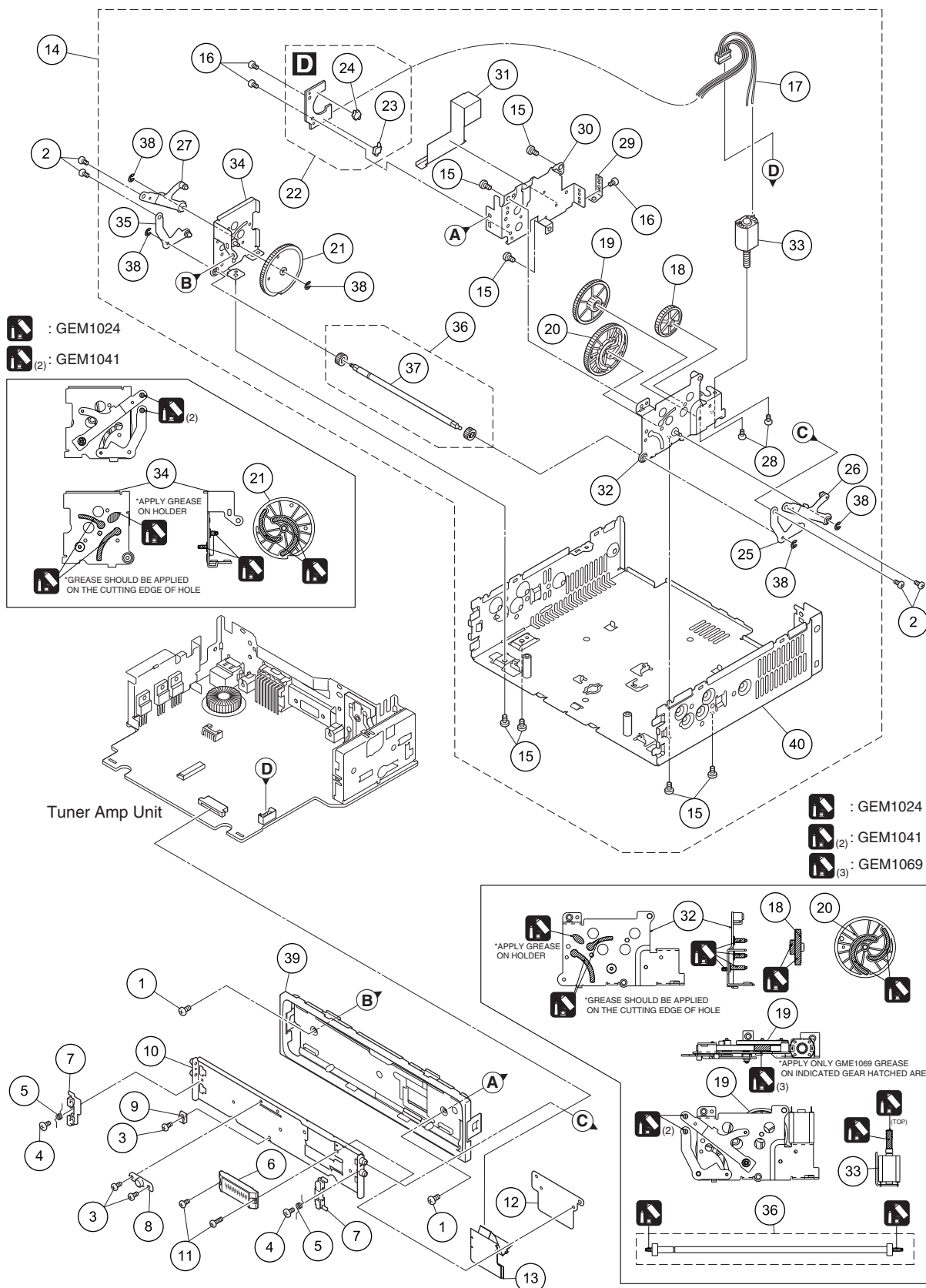
B

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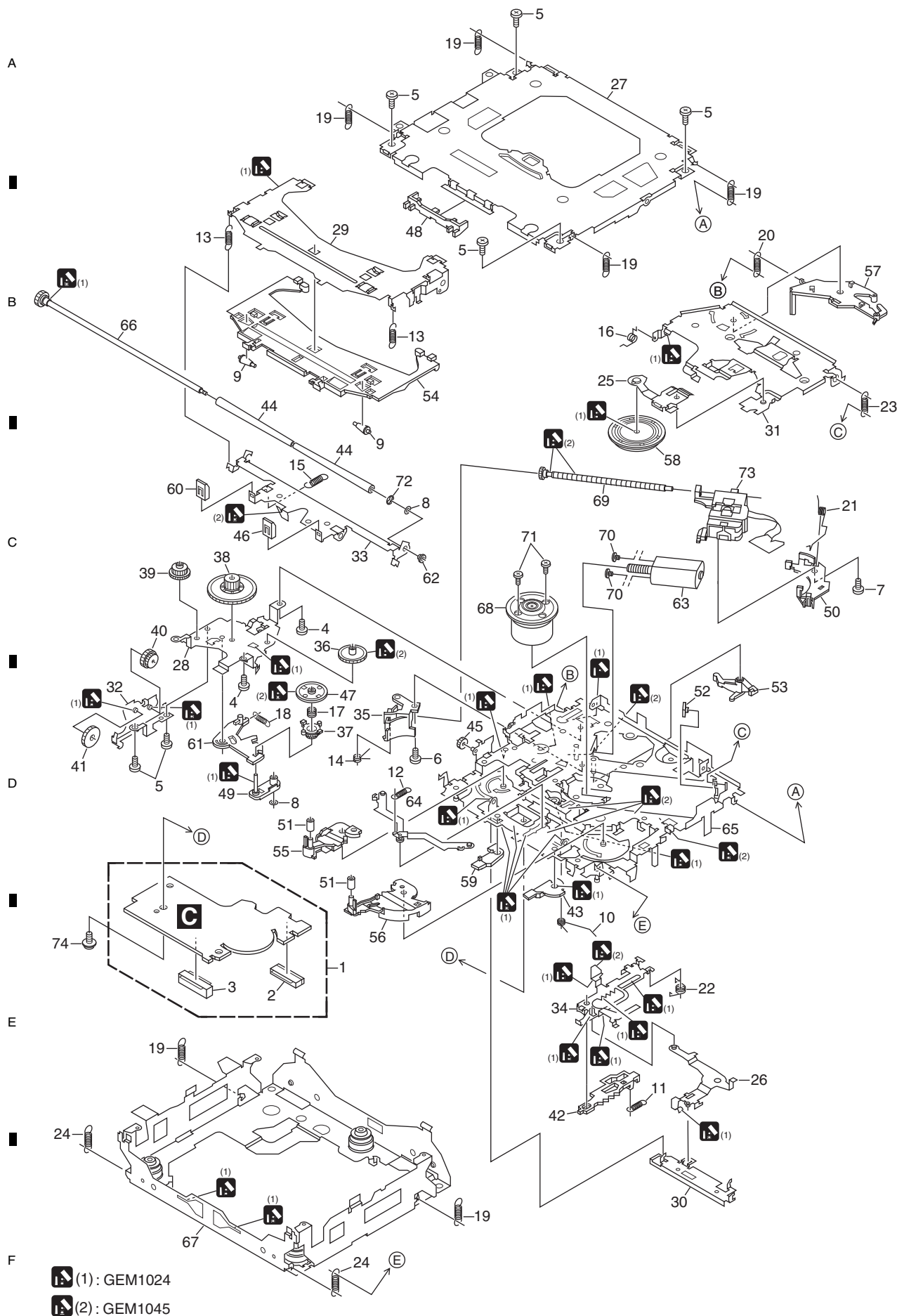
F



DRIVE UNIT SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	Screw(M2.6 x 4)	CBA1828	
2	Screw(M2 x 2.5)	CBA1924	A
3	Screw(M2 x 2)	CBA1871	
4	Screw(M2 x 1.9)	CBA1935	
5	Spring	CBH2530	
6	Connector	CKS5273	
7	Arm	CNV6962	
8	Guide	CNV6967	
9	Guide	CNV8048	
10	Case Unit	CXC6483	
11	Screw(M2 x 3.5)	XBA7002	B
12	Holder	XNC7019	
13	Flexible PCB	XNP7026	
14	Drive Unit	CXC8854	
15	Screw	BMZ26P040FTC	
16	Screw(M2 x 2)	CBA1871	
17	Cord	CDE7392	
18	Gear	CNV7752	
19	Gear	CNV7753	
20	Gear	CNV7754	C
21	Gear	CNV7755	
22	Switch Unit	CWS1389	
23	Switch	CSN1051	
24	Spring Switch	CSN1052	
25	Arm Unit	CXC2199	
26	Arm Unit	CXC6623	
27	Arm Unit	CXC6624	
28	Screw	JFZ20P020FTC	
29	Spring	XBL7003	D
30	Holder	XNC7017	
31	Insulator	XNM7119	
32	Holder Unit	XXA7399	
33	Motor Unit	XXA7400	
34	Holder Unit	XXA7401	
35	Arm Unit	XXA7403	
36	Gear Unit	XXA7424	
37	Shaft	XLA7001	
38	Washer	YE15FTC	E
39	Panel Unit	CXC8925	
* 40	Chassis Unit	CXC8855	

9.5 CD MECHANISM MODULE



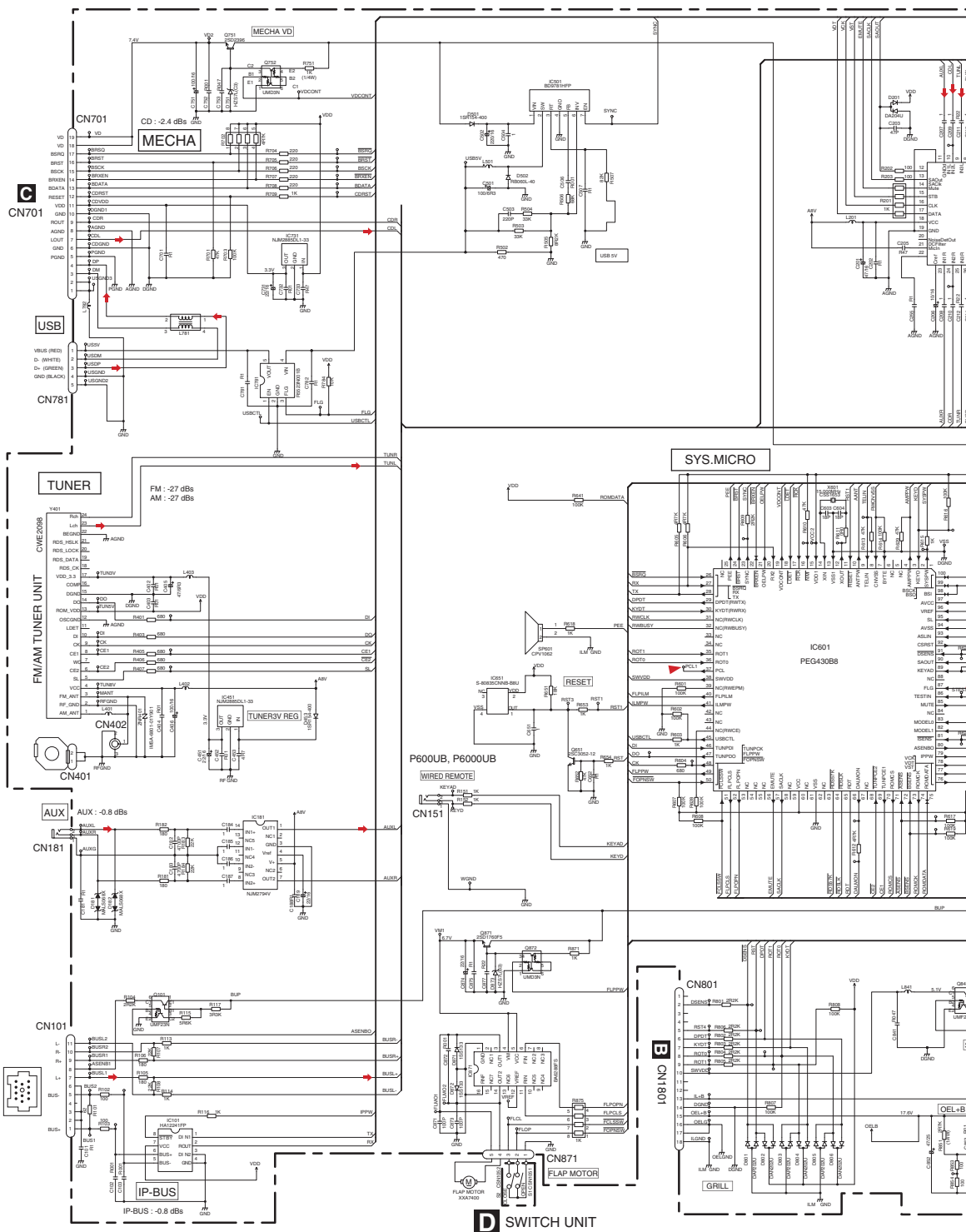
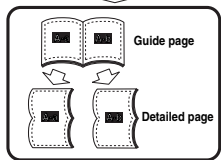
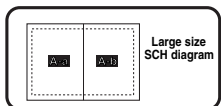
Mark No.	Description	Part No.	Mark No.	Description	Part No.	
1	CD Core Unit(S10.5COMP2-iPod)	CWX3526	50	Rack	CNV8342	
2	Connector(CN101)	CKS4182				
3	Connector(CN701)	CKS4186	51	Roller	CNV8343	A
4	Screw	BMZ20P025FTC	52	Holder	CNV8344	
5	Screw	BSZ20P040FTC	53	Arm	CNV8345	
			54	Guide	CNV9498	
6	Screw(M2 x 3)	CBA1511	55	Arm	CNV8348	
7	Screw(M2 x 4)	CBA1835				
8	Washer	CBF1038	56	Arm	CNV8349	
9	Roller	CNV9499	57	Arm	CNV8350	
10	Spring	CBH2609	58	Clamper	CNV8365	
			59	Arm	CNV8386	
11	Spring	CBH2612	60	Guide	CNV8396	B
12	Spring	CBH2614				
13	Spring	CBH2616	61	Arm	CNV8413	
14	Spring	CBH2617	62	Collar	CNV8938	
15	Spring	CBH2620	63	Motor Unit(M2)	CXC4026	
			64	Arm Unit	CXC4027	
16	Spring	CBH2855	65	Chassis Unit	CXC4028	
17	Spring	CBH2937				
18	Spring	CBH2735	66	Gear Unit	CXC4029	
19	Spring	CBH2854	67	Frame Unit	CXC4031	
20	Spring	CBH2642	68	Motor Unit(M1)	CXC7134	
			69	Screw Unit	CXC6359	C
21	Spring	CBH2856	70	Screw	JFZ20P020FTC	
22	Spring	CBH2857				
23	Spring	CBH2860	71	Screw	JGZ17P022FTC	
24	Spring	CBH2861	72	Washer	YE20FTC	
25	Spring	CBL1686	73	Pickup Unit(P10.5)(Service)	CXX1942	
			74	Screw	IMS26P030FTC	
26	Arm	CND1909				
27	Frame	CND2582				
28	Bracket	CND2583				
29	Arm	CND3831				
30	Lever	CND2585				D
31	Arm	CND2586				
32	Bracket	CND2587				
33	Arm	CND2588				
34	Lever	CND2589				
35	Holder	CNV7201				
36	Gear	CNV7207				
37	Gear	CNV7208				
38	Gear	CNV7209				
39	Gear	CNV7210				E
40	Gear	CNV7211				
41	Gear	CNV7212				
42	Rack	CNV7214				
43	Arm	CNV7216				
44	Roller	CNV7218				
45	Gear	CNV7219				
46	Guide	CNV7361				
47	Gear	CNV7595				F
48	Guide	CNV7799				
49	Arm	CNV7805				

10. SCHEMATIC DIAGRAM


10.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

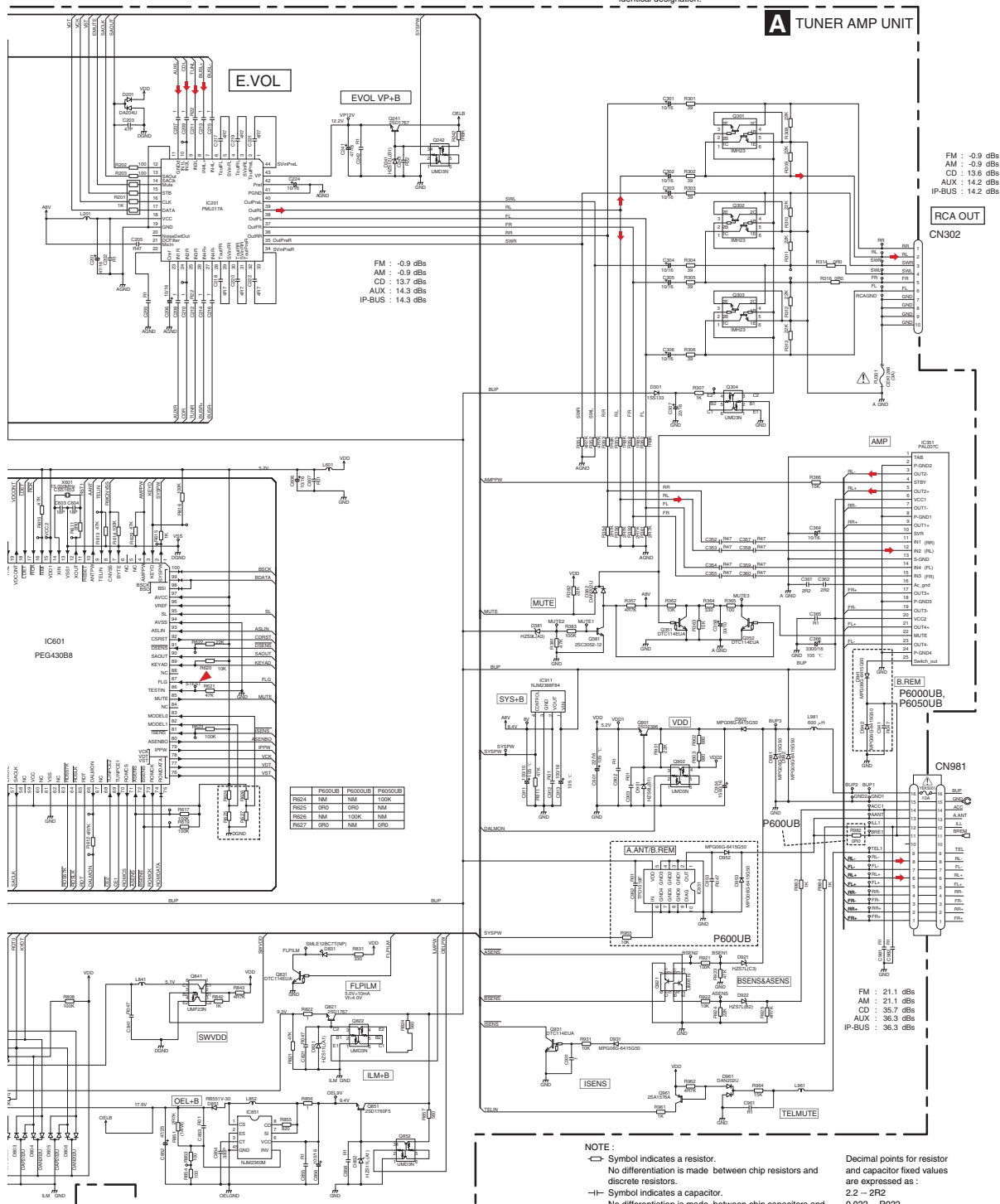
A-a



A-b

The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

A TUNER AMP UNIT



NOTE :

- NOTE:
- |— Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
 - ||— Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as :

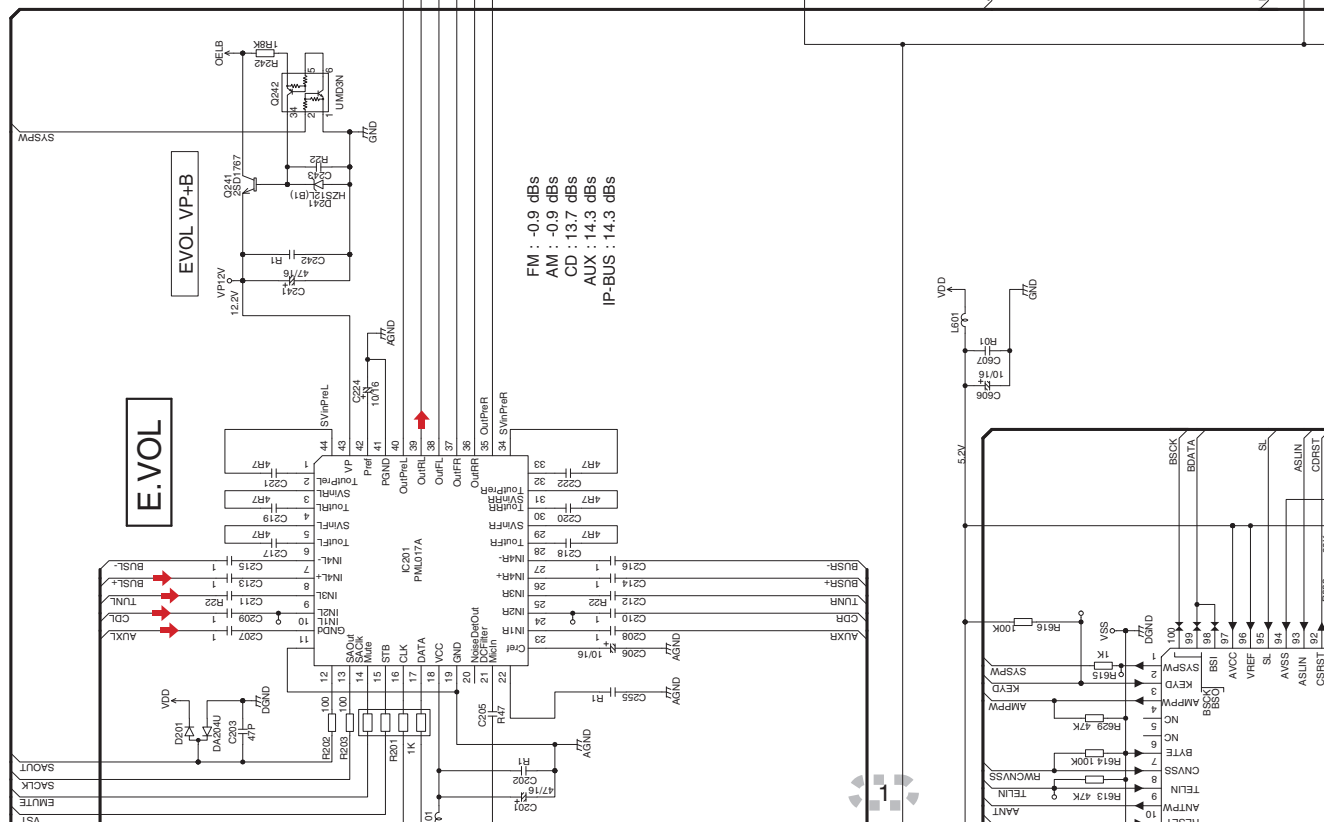
2.2 — 2R2

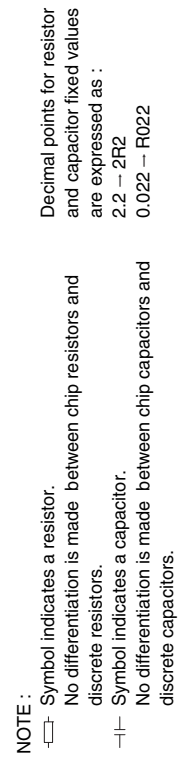
0.022 — R022

A TUNER AMP UNIT

The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

A-a A-b





Decimal points for resistor and capacitor fixed values are expressed as :

$2.2 - 2R2$
 $0.022 - R022$

: : Symbol indicates a resistor.
 No differentiation is made between chip resistors and discrete resistors.
 : : Symbol indicates a capacitor.
 No differentiation is made between chip capacitors and discrete capacitors.

NOTE:

 Symbol indicates a resistor.

No differentiation is made between chip resistors and discrete resistors.

—||— Symbol indicates a capacitor.

discrete capacitors.

A-a	A-b
-----	-----

	P600UB	P6000UB	P6050UB
R624	NM	NM	100K
R625	OR0	OR0	NM
R626	NM	100K	NM
R627	OR0	NM	OR0

DEH-P600UB/XN/UC

1

2

3

4

A

A-b

B

C

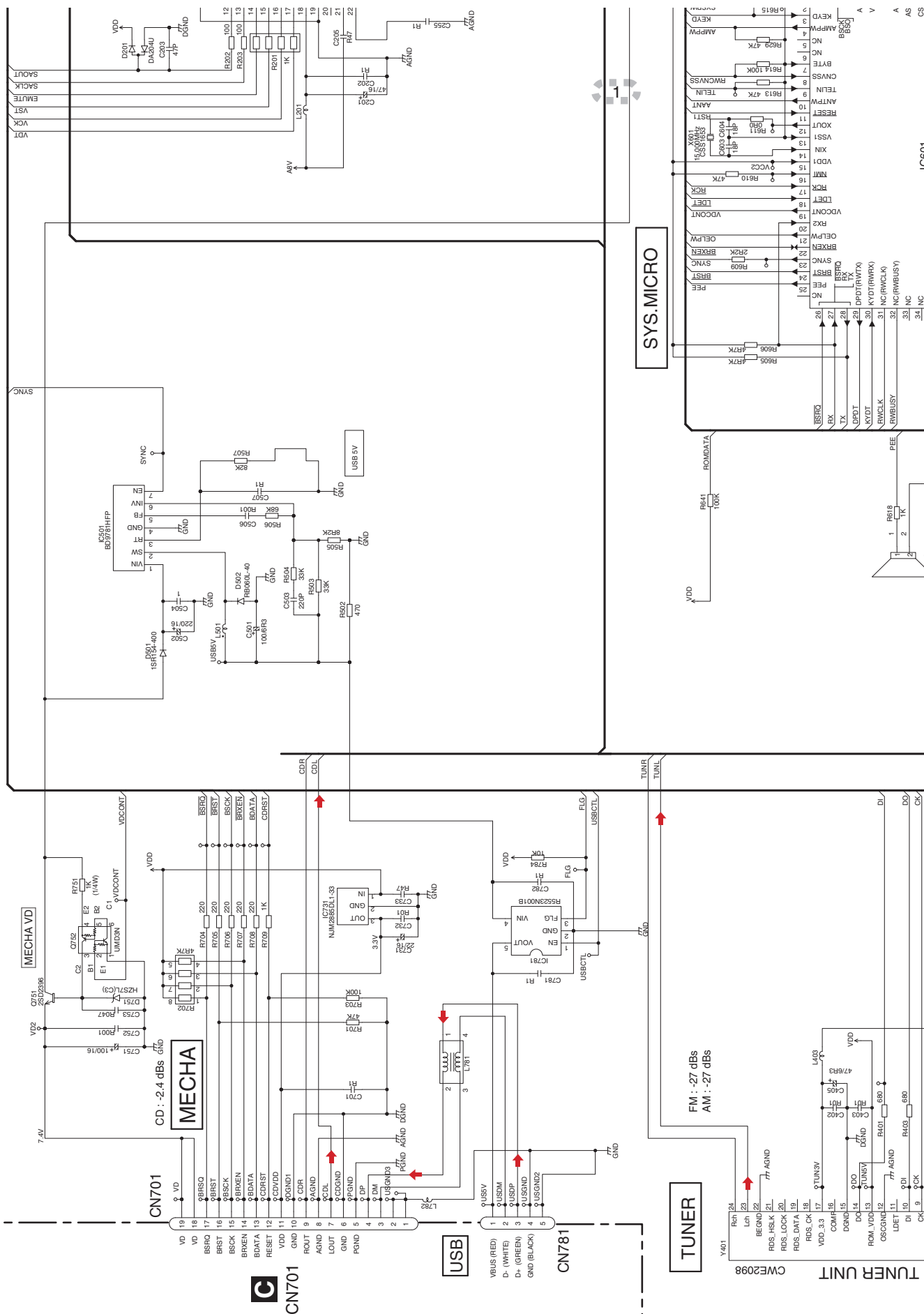
D

E

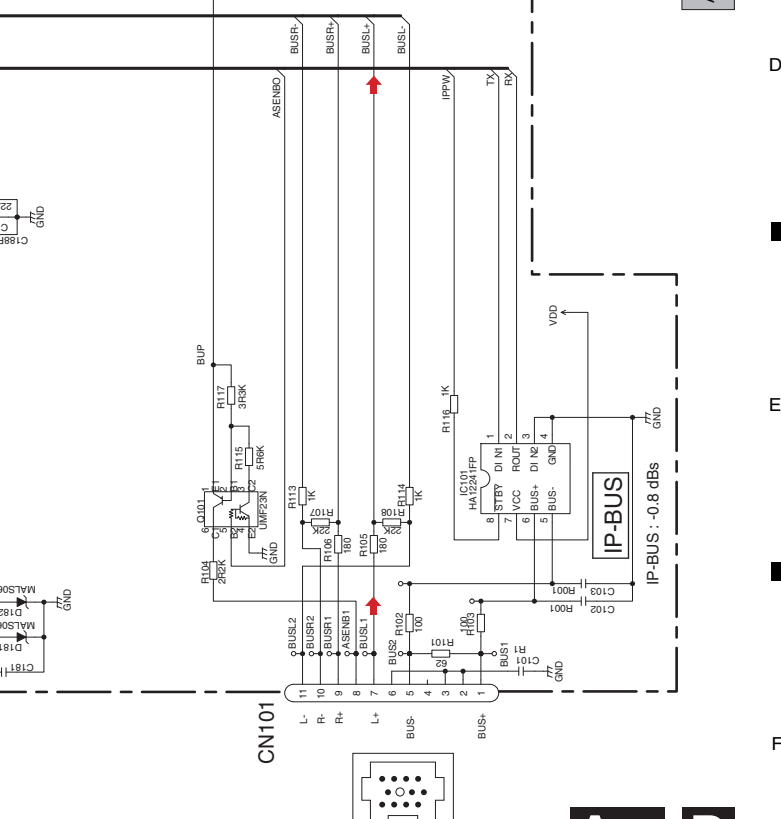
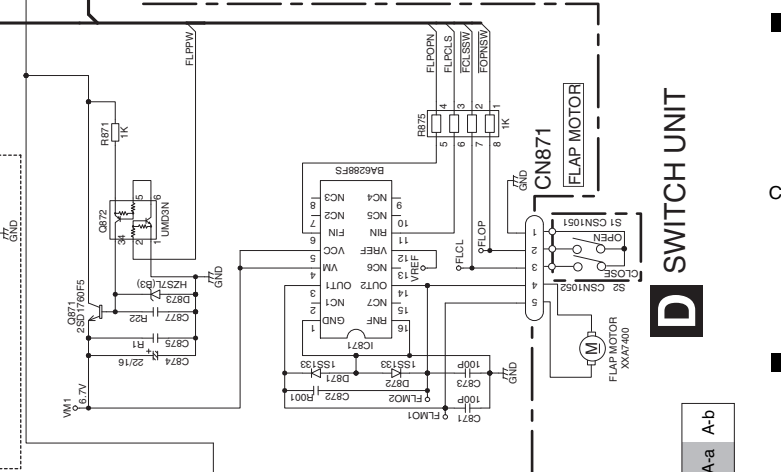
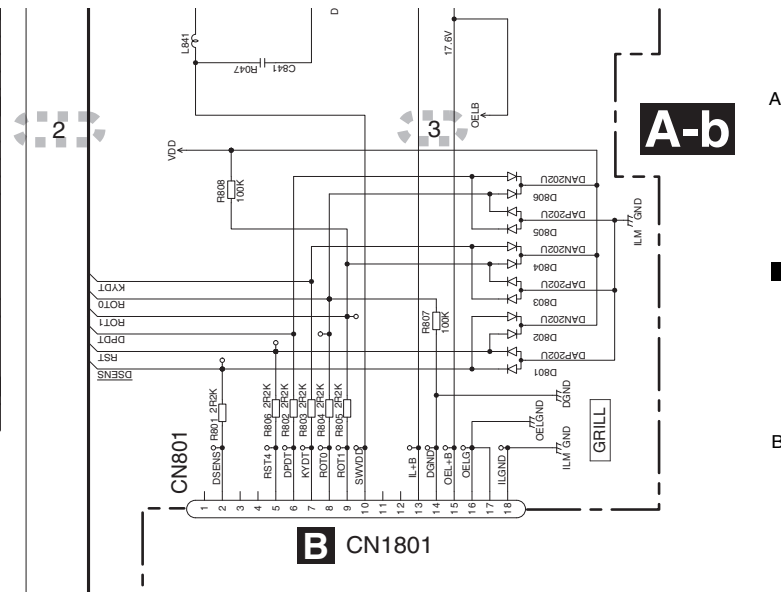
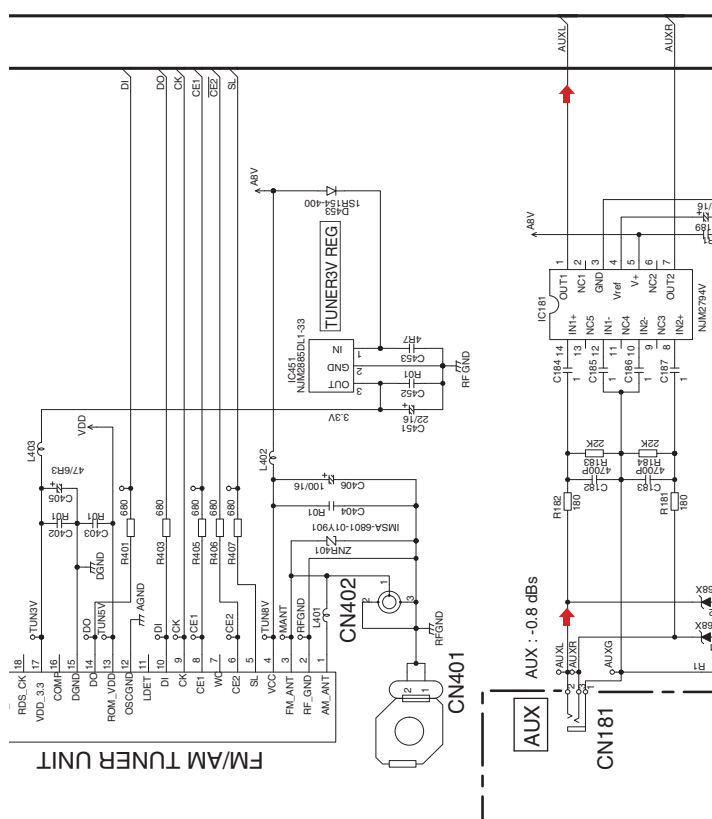
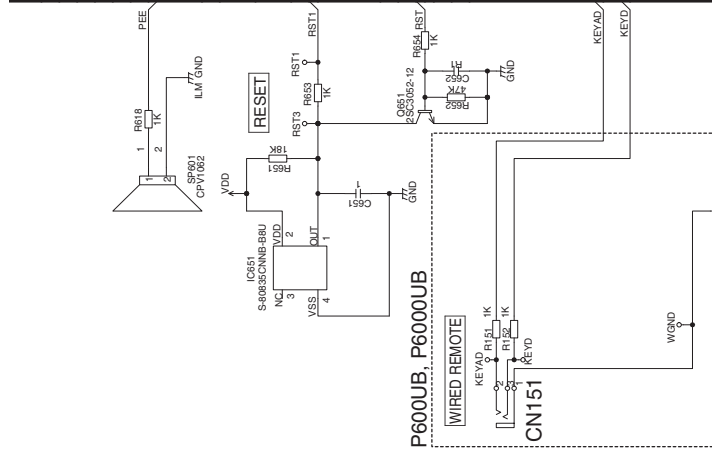
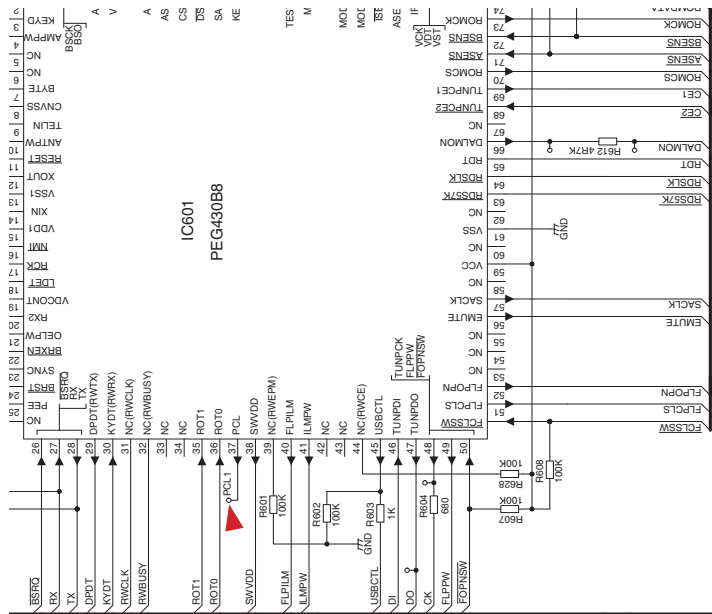
F

A-a

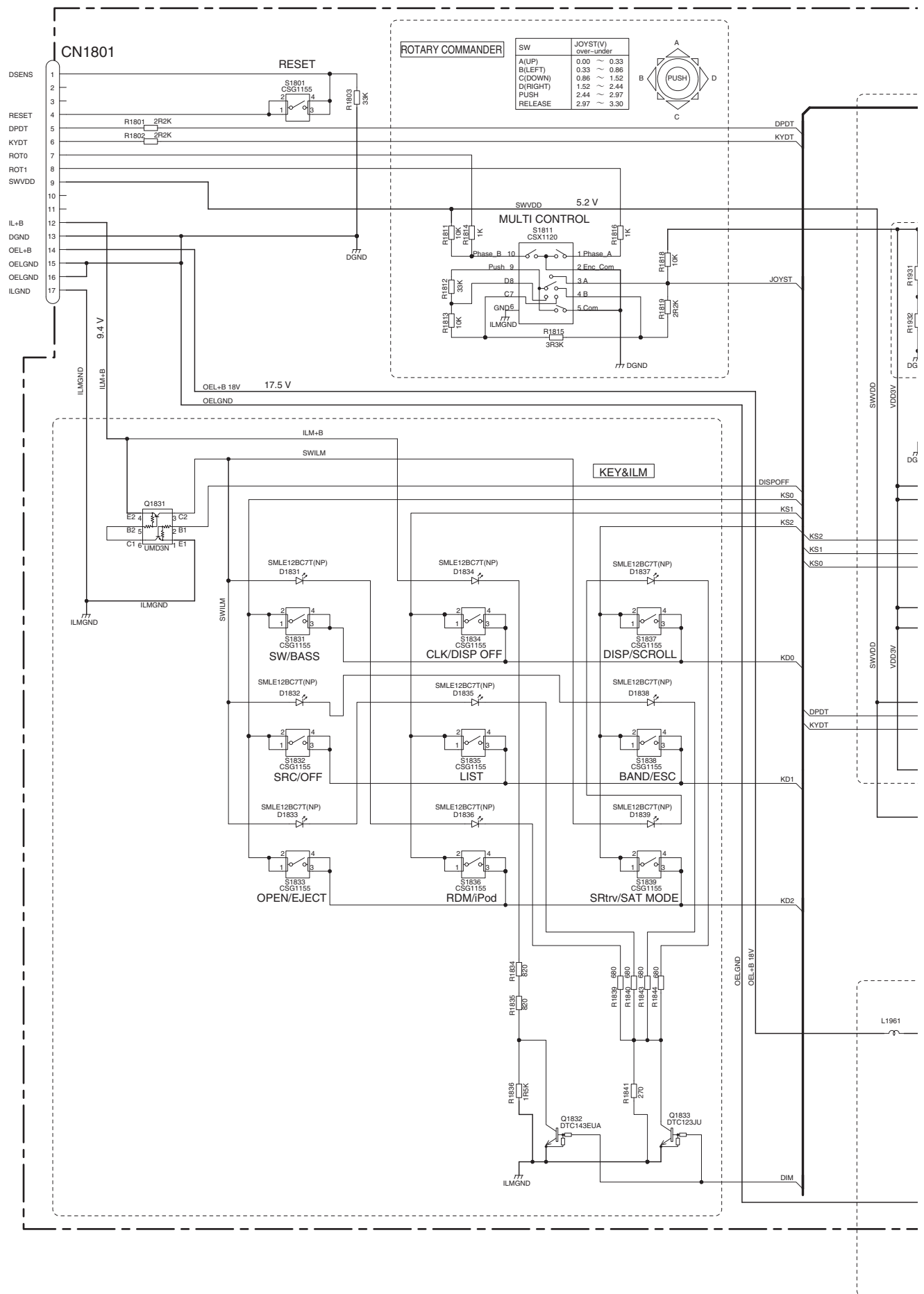
50



DEH-P600UB/XN/UC



10.2 KEYBOARD UNIT

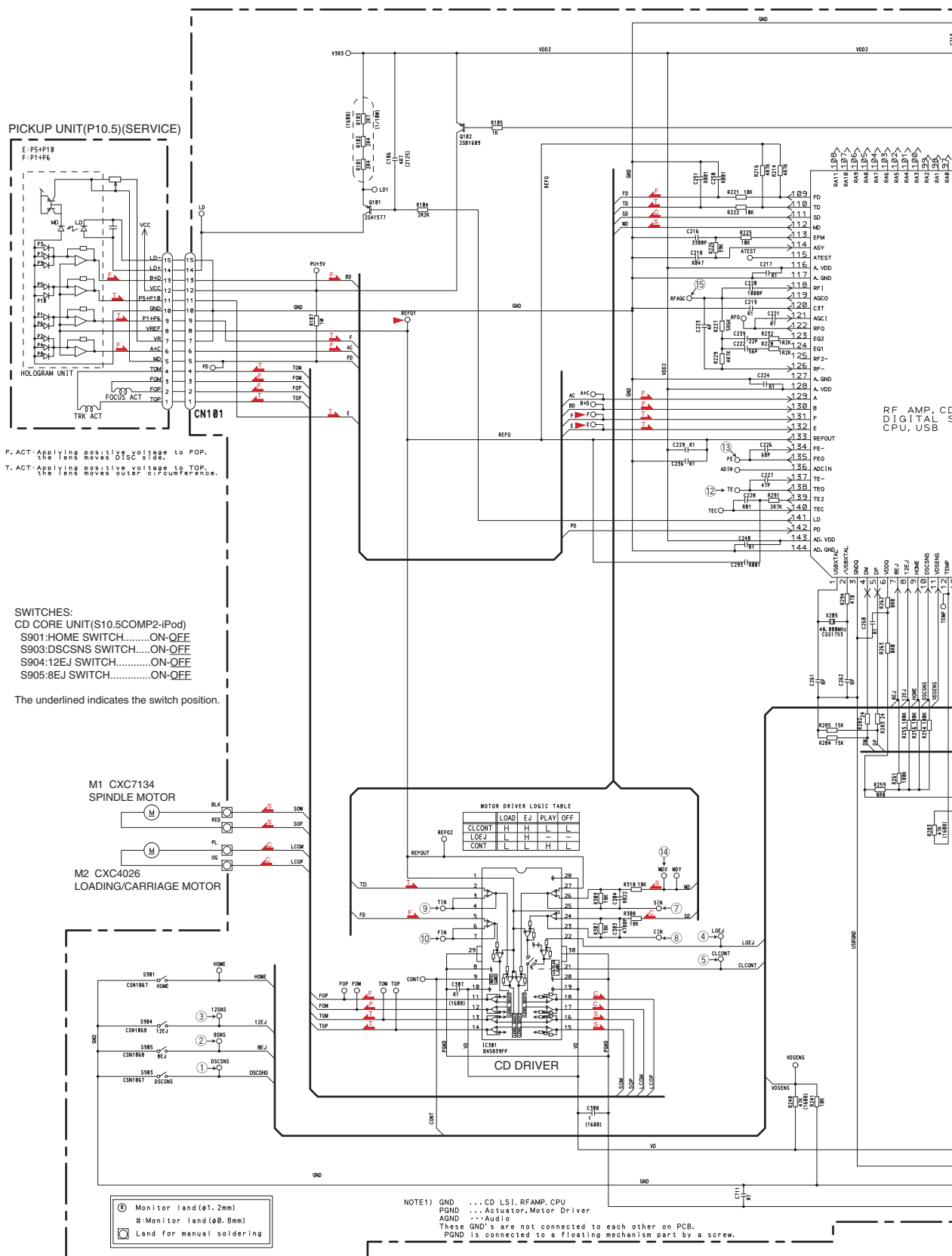


F



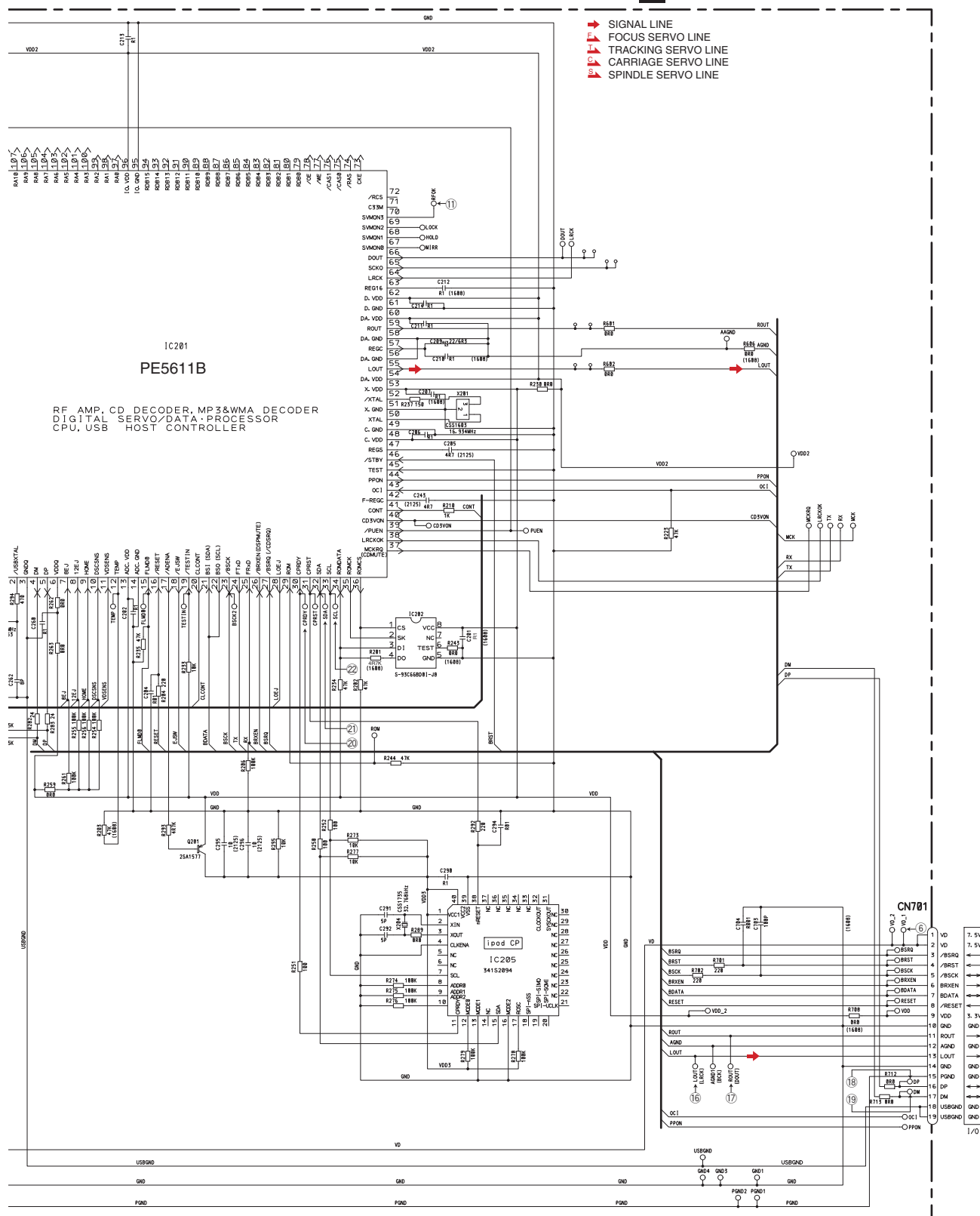
10.3 CD MECHANISM MODULE(GUIDE PAGE)

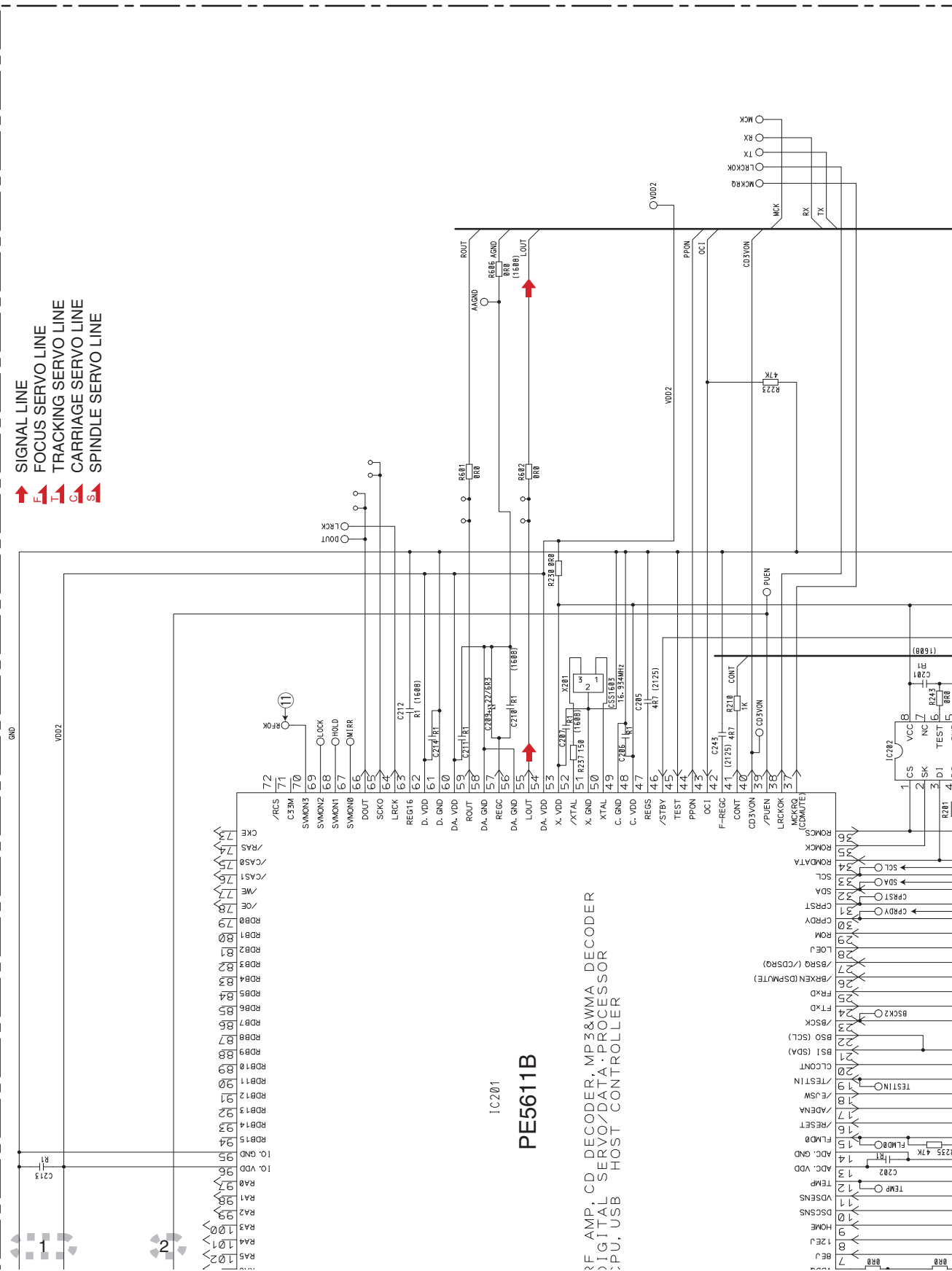
C-a



C-b

C CD CORE UNIT(S10.5COMP2-iPod)





A



C

C

E

F

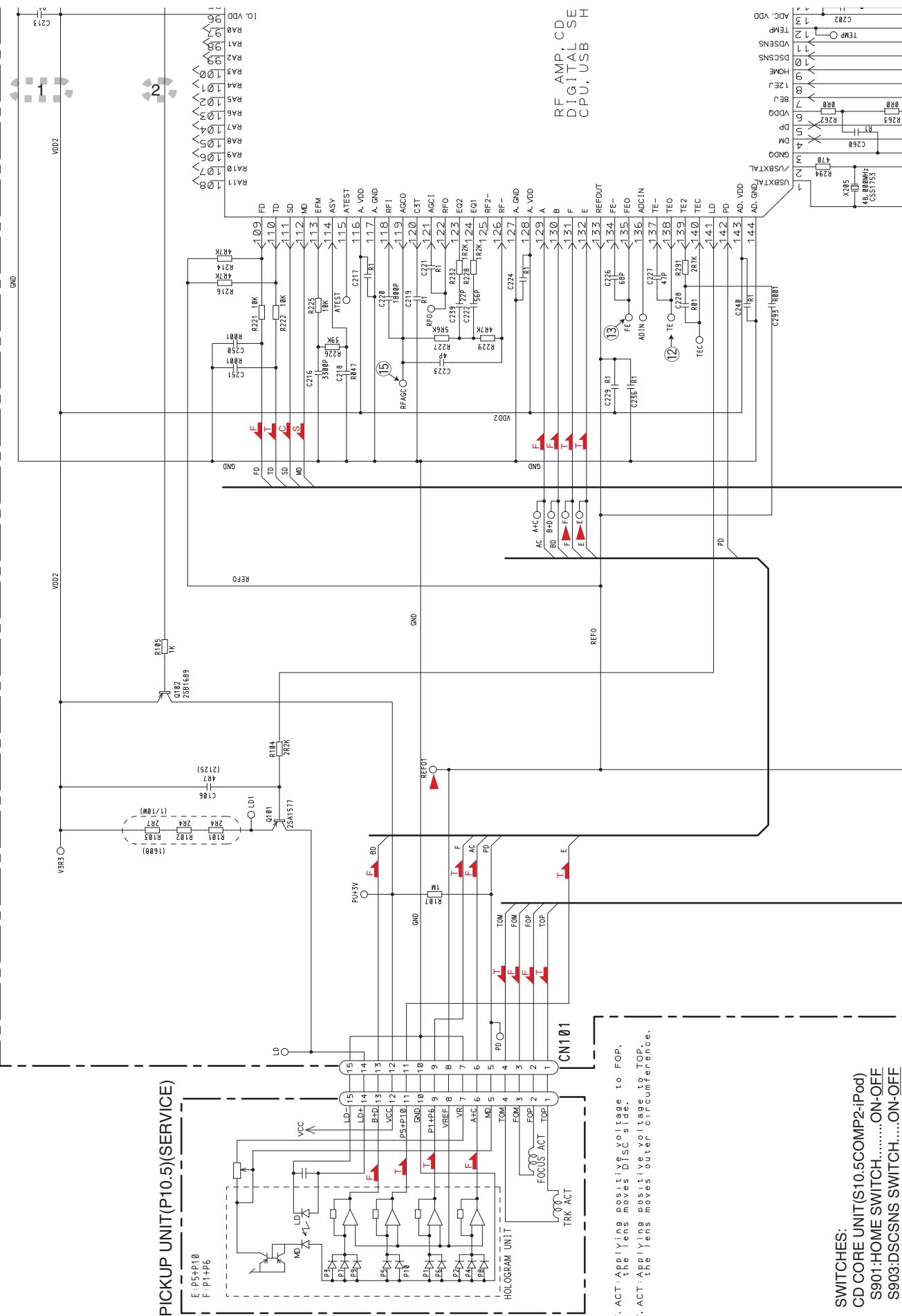
57

1

2

3

4



C-b

C-a C-b

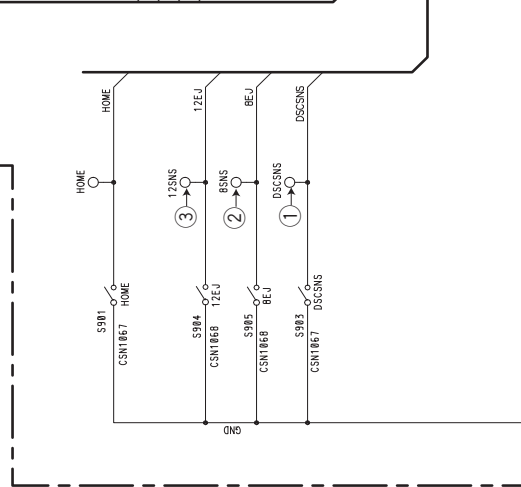
C-a

SWITCHES:
 CD CORE UNIT(S10.5COMP2-iPod)
 S901:HOME SWITCH.....ON-OFF
 S903:DSCSNS SWITCH.....ON-OFF
 S904:12EJ SWITCH.....ON-OFF
 S905:8EJ SWITCH.....ON-OFF

The underlined indicates the switch position.

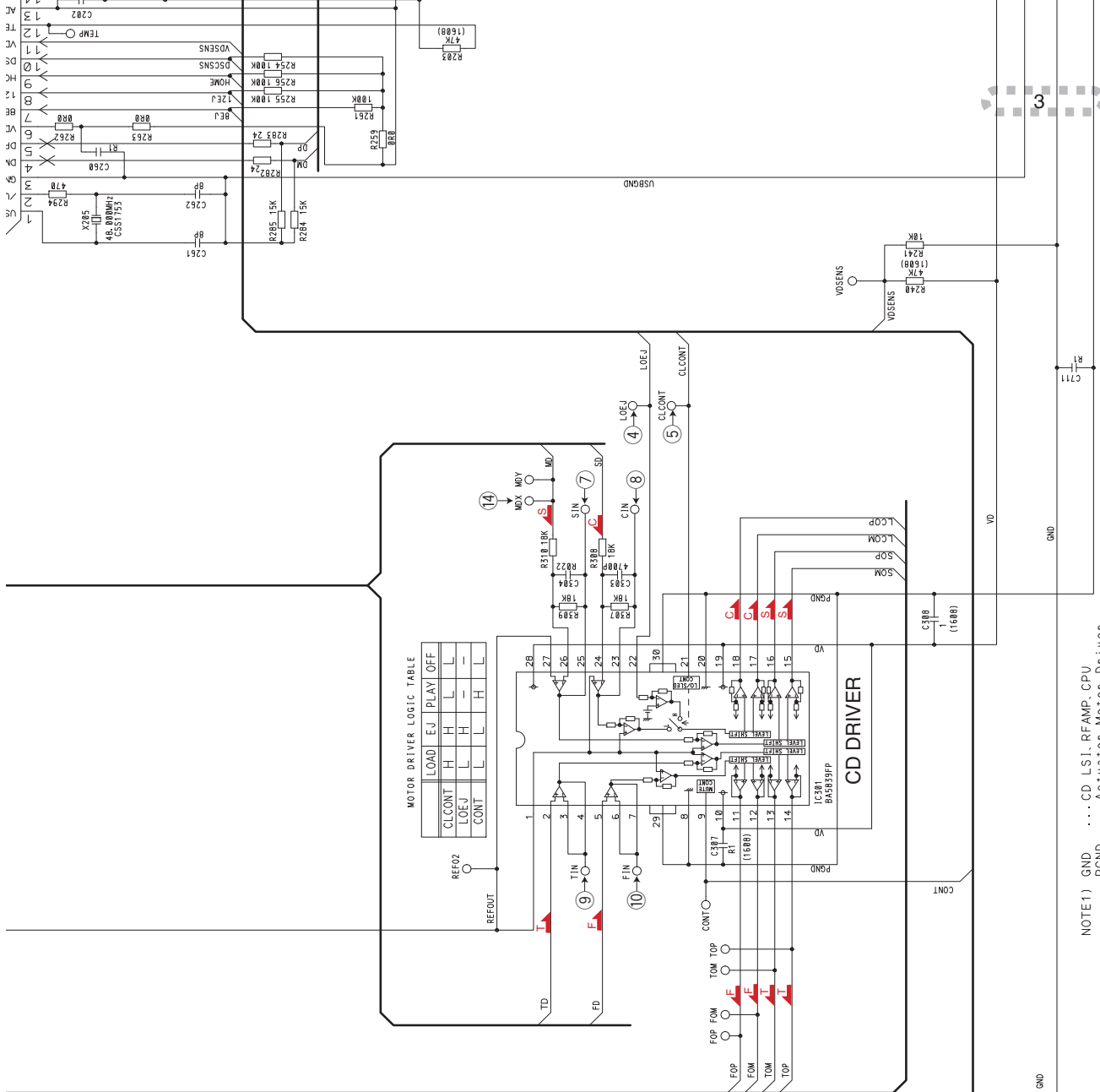
M1 CX7134
 SPINDLE MOTOR

M2 CX4026
 LOADING/CARRIAGE MOTOR



- (E) Monitor land (ø1.2mm)
- #: Monitor land (ø0.8mm)
- Land for manual soldering

NOTE1) GND ...CD LSI, RFAMP, CPU
 PGND ...Actuator, Motor Driver
 AGND ...Audio
 These GND's are not connected to each other on PCB.
 PGND is connected to a floating mechanism part by a screw.



C-a

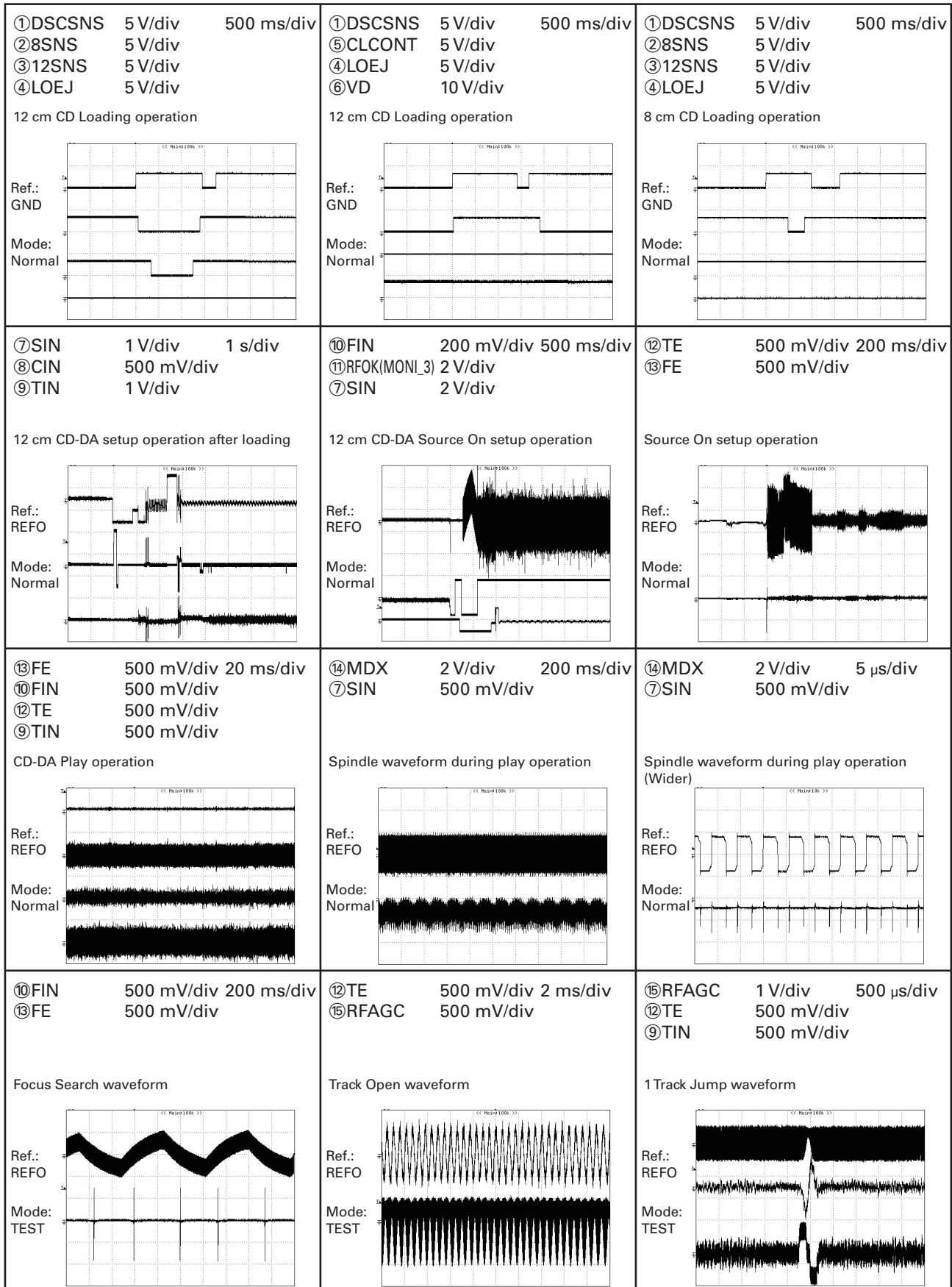
C-a C-b

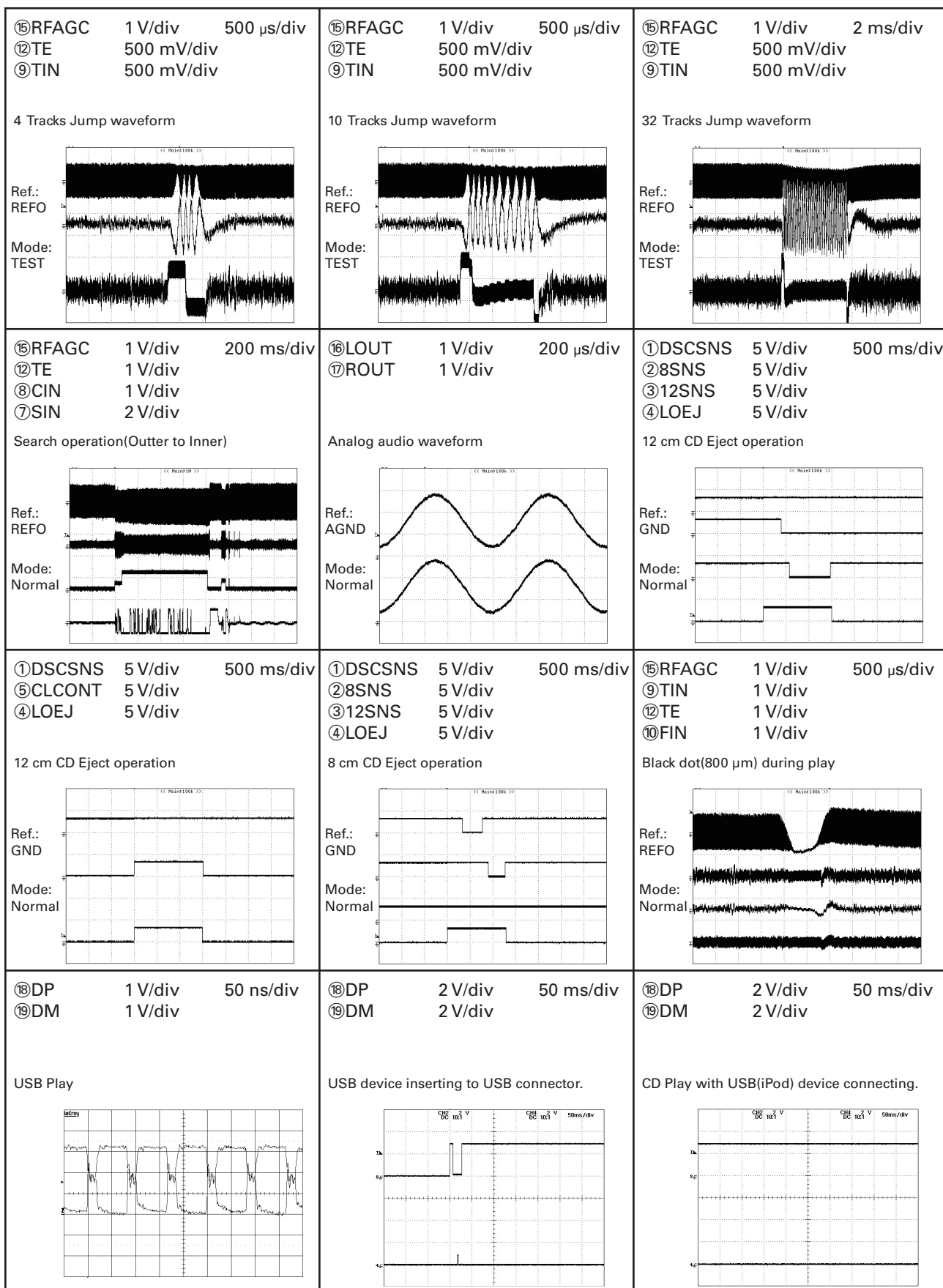
C-b

10.4 WAVEFORMS

CD CORE UNIT

Note : 1. The encircled numbers denote measuring points in the circuit diagram.
2. Reference voltage REFO1(1.65 V)

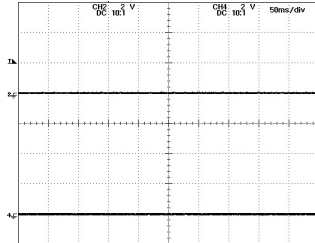




A

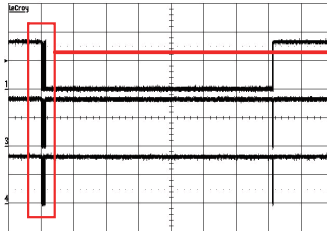
⑮ DP 2 V/div 50 ms/div
⑮ DM 2 V/div

ACC OFF with USB(iPod) device connecting.



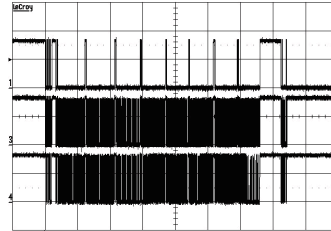
⑳ CPRDY 2 V/div 10 s/div
㉑ SDA 2 V/div
㉒ SCL 2 V/div

iPod Authentication Operation



⑳ CPRDY 2 V/div
㉑ SDA 2 V/div
㉒ SCL 2 V/div

iPod Authentication Operation(zoom until 2 s)



B

C

D

E

F

■

5

■

6

■

7

■

8

■

A

■

B

■

C

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D

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E

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DEH-P600UB/XN/UC

■

7

■

8

■

11. PCB CONNECTION DIAGRAM

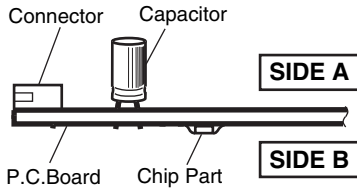
11.1 TUNER AMP UNIT

NOTE FOR PCB DIAGRAMS

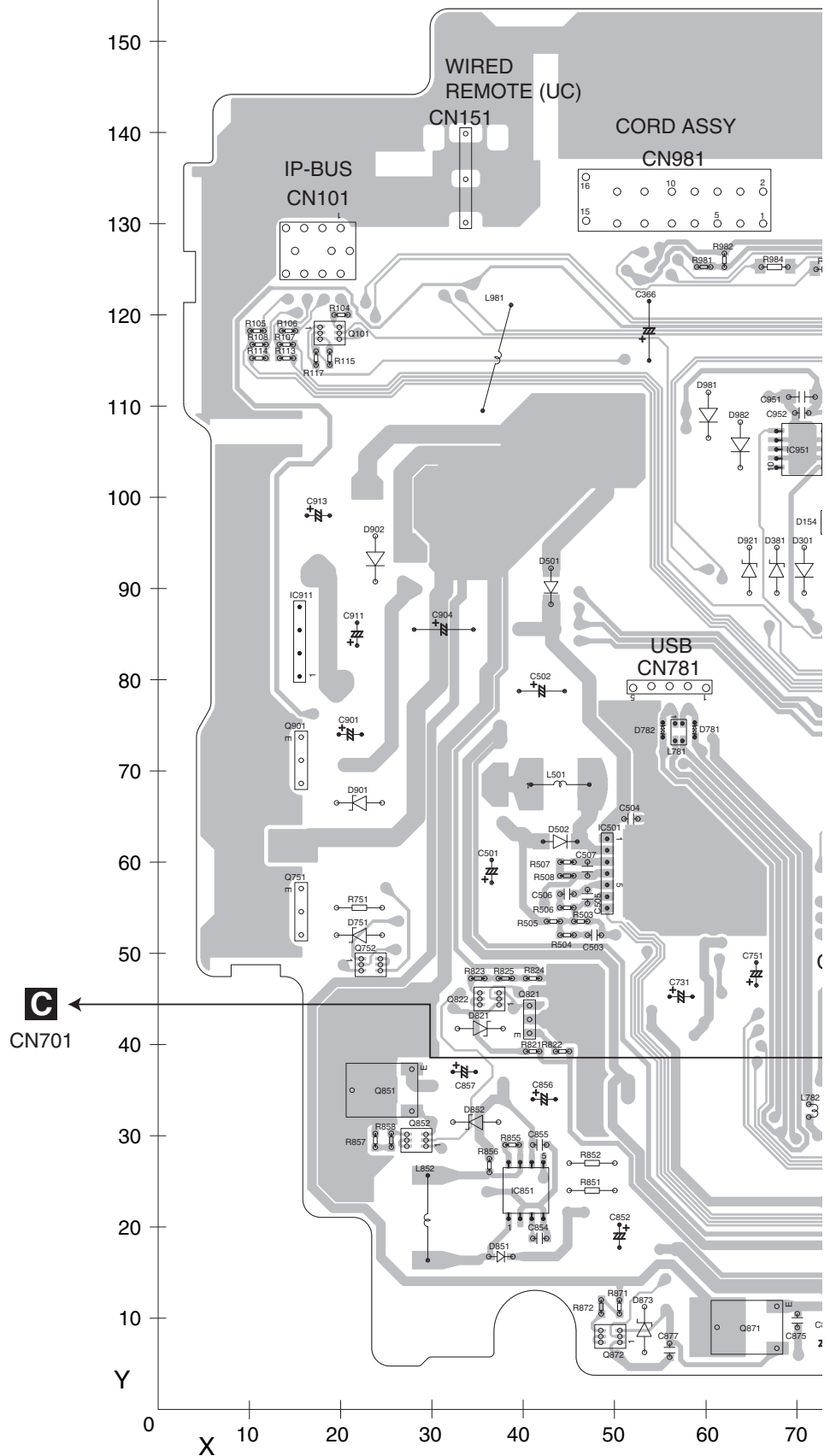
1. The parts mounted on this PCB include all necessary parts for several destination.

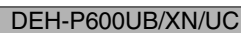
For further information for respective destinations, be sure to check with the schematic diagram.

2. Viewpoint of PCB diagrams



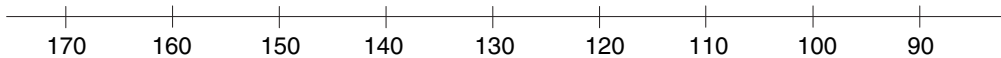
A TUNER AMP UNIT





F

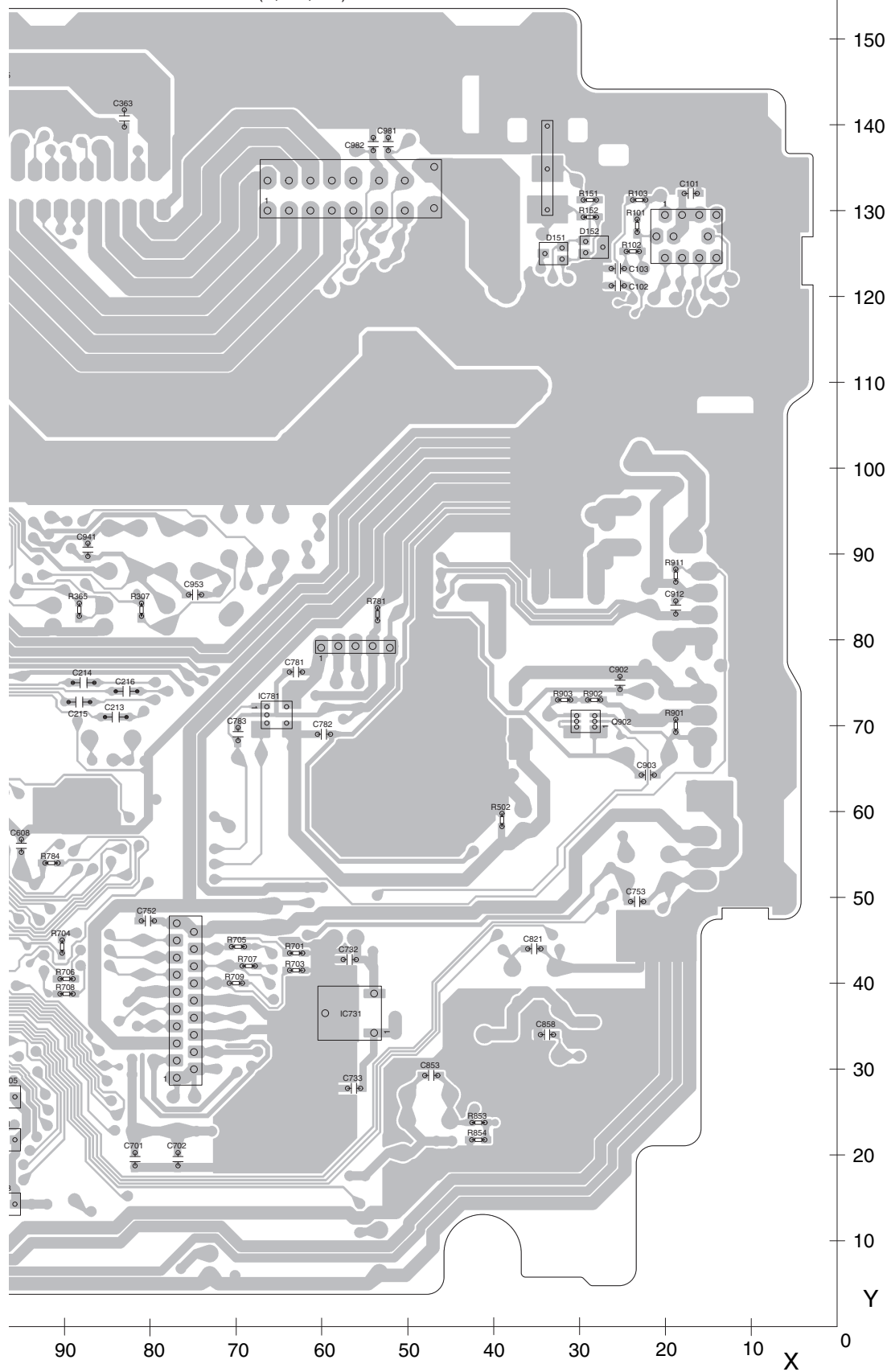
A



90

⚠ FU 301 (B,123,129) Fuse 3 A CEK1286

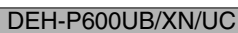
SIDE B



4

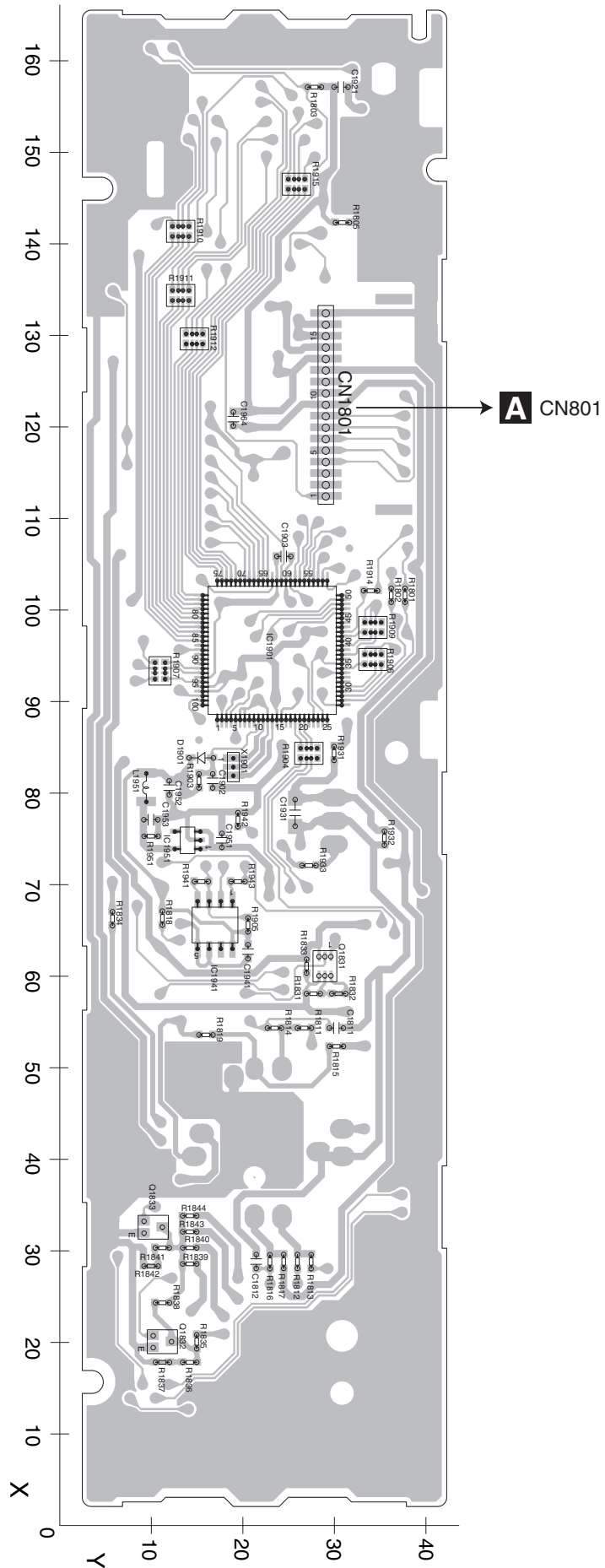
F

B



B KEYBOARD UNIT

SIDE B

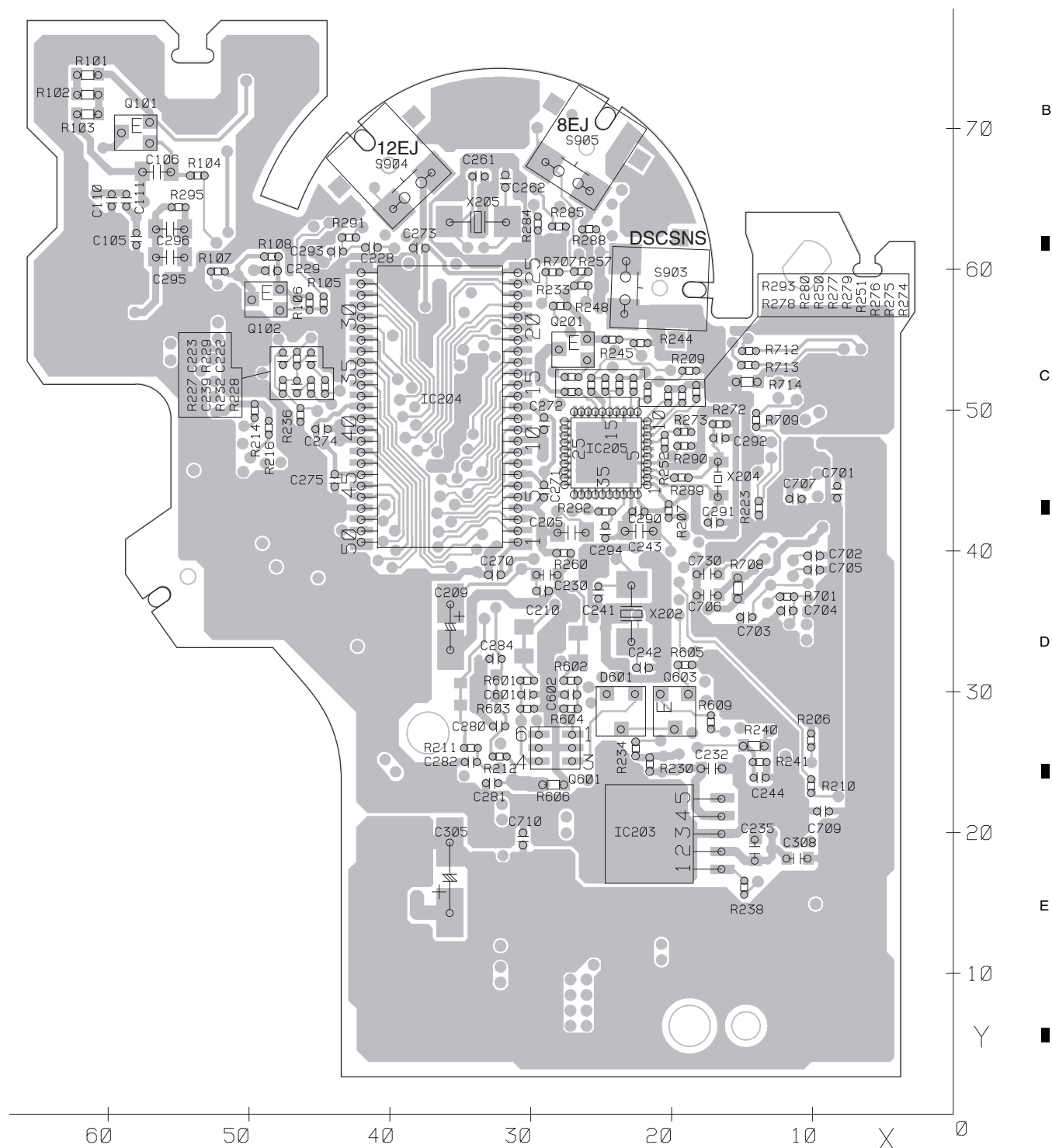


DEH-P600UB/XN/UC

B

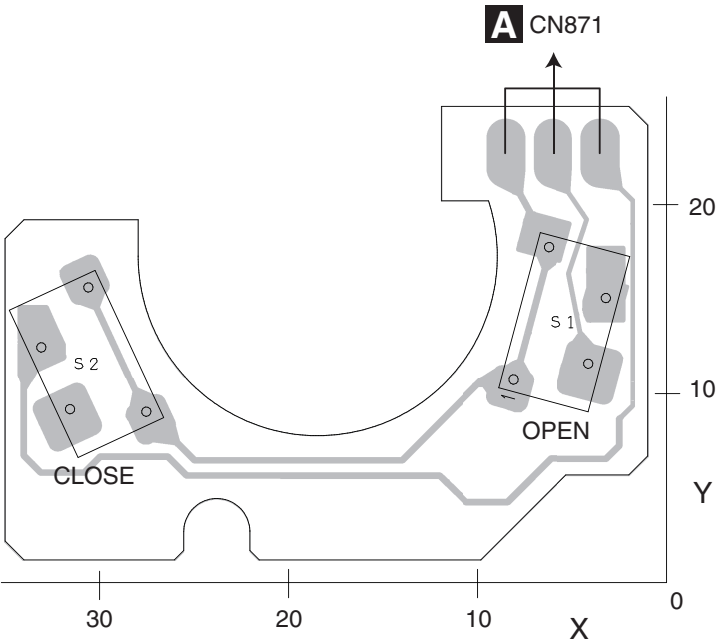
C CD CORE UNIT(S10.5COMP2-iPod)

SIDE B



11.4 SWITCH UNIT

D SWITCH UNIT



12. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○○J,RS1/○○S○○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

<u>Circuit Symbol and No.</u>	<u>Part No.</u>
Unit Number : CWN3149(P600UB)	
Unit Number : CWN3148(P6000UB)	
Unit Number : CWN3150(P6050UB)	
Unit Name : Tuner Amp Unit	
Unit Number : (P600UB)	
Unit Number : (P6000UB)	
Unit Number : (P6050UB)	
Unit Name : Keyboard Unit	
Unit Number : CWX3526	
Unit Name : CD Core Unit	
(S10.5COMP2-iPod)	
Unit Number : CWS1389	
Unit Name : Switch Unit	

A

Unit Number : CWN3149(P600UB)
Unit Number : CWN3148(P6000UB)
Unit Number : CWN3150(P6050UB)
Unit Name : Tuner Amp Unit

MISCELLANEOUS

IC 101	(A,90,62) IC	HA12241FP
IC 181	(A,113,110) IC	NJM2794V
IC 201	(A,124,85) IC	PML017A
IC 351	(A,90,136) IC	PAL007C
IC 451	(B,152,82) IC	NJM2885DL1-33
IC 501	(A,54,59) Regulator IC	BD9781HFP
IC 601	(A,126,47) IC	PEG430B8
IC 651	(A,139,63) IC	S-80835CNNB-B8U
IC 731	(B,59,37) IC	NJM2885DL1-33
IC 781	(B,65,71) IC	R5523N001B
IC 851	(A,40,24) IC	NJM2360M

<u>Circuit Symbol and No.</u>	<u>Part No.</u>
IC 871	(A,149,17) IC
IC 911	(A,16,80) IC
IC 951	(A,71,105) IC(P600UB)
Q 101	(A,19,118) Transistor
Q 241	(A,106,80) Transistor
Q 242	(A,111,78) Transistor
Q 301	(A,124,107) Transistor
Q 302	(A,144,124) Transistor
Q 303	(A,130,124) Transistor
Q 304	(A,90,89) Transistor
Q 351	(A,98,85) Chip Transistor
Q 352	(A,98,81) Chip Transistor
Q 381	(A,91,100) Transistor
Q 651	(A,138,37) Transistor
Q 751	(A,15,55) Transistor
Q 752	(A,23,49) Transistor
Q 821	(A,43,43) Transistor
Q 822	(A,36,45) Transistor
Q 831	(A,85,15) Chip Transistor
Q 841	(A,103,26) Transistor
Q 851	(A,23,35) Transistor
Q 852	(A,28,30) Transistor
Q 871	(A,63,9) Transistor
Q 872	(A,50,8) Transistor
Q 901	(A,15,71) Transistor
Q 902	(B,29,71) Transistor
Q 921	(A,79,65) Transistor
Q 931	(B,111,63) Chip Transistor
Q 961	(A,89,105) Transistor
D 181	(A,122,123) Diode
D 182	(A,122,125) Diode
D 201	(A,138,69) Diode Network
D 241	(A,107,87) Diode
D 301	(A,71,92) Diode
D 381	(A,68,92) Diode
D 382	(A,98,77) Diode
D 453	(A,148,89) Diode
D 501	(A,43,90) Diode
D 502	(A,44,62) Diode
D 751	(A,22,52) Diode
D 801	(B,97,22) Diode
BA6288FS	
NJM2388F84	
TPD1018F	
UMF23N	
2SD1767	
UMD3N	
IMH23	
IMH23	
IMH23	
UMD3N	
DTC114EUA	
DTC114EUA	
2SC3052-12	
2SC3052-12	
2SD2396	
UMD3N	
2SD1767	
UMD3N	
DTC114EUA	
UMF23N	
2SD1760F5	
UMD3N	
2SD1760F5	
UMD3N	
2SD2396	
UMD3N	
UMX1N	
DTC114EUA	
2SA1576A	
MALS068X	
MALS068X	
DA204U	
HZS12L(B1)	
1SS133	
HZS9L(A3)	
DAN202U	
1SR154-400	
1SR154-400	
RB060L-40	
HZS7L(C3)	
DAP202U	

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<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 608	(A,123,28)	RS1/16S104J		R 901	(B,19,70)	RS1/16S223J	
R 609	(B,118,51)	RS1/16S222J		R 902	(B,28,73)	RS1/16S681J	
R 610	(B,121,55)	RS1/16S473J		R 903	(B,32,73)	RS1/16S681J	
R 611	(B,126,60)	RS1/16S0R0J		R 911	(B,19,88)	RS1/16S473J	A
R 612	(B,124,37)	RS1/16S472J		R 921	(A,78,69)	RS1/16S104J	
R 613	(B,131,56)	RS1/16S473J		R 922	(A,81,64)	RS1/16S103J	
R 614	(B,149,53)	RS1/16S104J		R 923	(A,79,69)	RS1/16S473J	
R 615	(B,132,63)	RS1/16S102J		R 924	(A,82,64)	RS1/16S223J	
R 616	(B,110,55)	RS1/16S104J		R 925	(A,88,73)	RS1/16S472J	
R 617	(B,103,59)	RS1/16S104J		R 931	(B,116,65)	RS1/16S103J	
R 618	(A,123,68)	RS1/10SR102J		R 955	(A,112,68) (P600UB)	RS1/16S103J	
R 619	(B,103,61)	RS1/16S104J		R 961	(A,90,102)	RS1/10SR102J	
R 620	(B,134,51)	RS1/16S103J		R 962	(A,89,108)	RS1/16S472J	
R 621	(B,142,49)	RS1/16S473J		R 964	(A,88,114)	RS1/16S153J	
R 622	(B,103,57)	RS1/16S223J		R 982	(A,62,126) (P600UB)	RS1/16S0R0J	B
R 623	(B,135,46)	RS1/16S104J		R 983	(A,74,125)	RS1/4SA102J	
R 624	(B,135,42) (P6050UB)	RS1/16S104J		R 984	(A,68,125)	RS1/4SA102J	
R 625	(A,140,43) (P600UB, P6000UB)	RS1/16S0R0J		CAPACITORS			
R 626	(B,135,44) (P6000UB)	RS1/16S104J					
R 627	(A,140,44) (P600UB)	RS1/16S0R0J		C 101	(B,17,132)	CKSRYB104K16	
				C 102	(B,26,121)	CKSRYB102K50	
R 628	(A,117,34)	RS1/16S104J		C 103	(B,26,123)	CKSRYB102K50	
R 629	(A,106,66)	RS1/16S473J		C 181	(B,122,125)	CKSRYB104K16	
R 641	(A,140,31)	RS1/16S104J		C 182	(A,115,122)	CKSRYB472K50	
R 651	(A,140,59)	RS1/16S183J					
R 652	(A,137,33)	RS1/16S473J		C 183	(A,118,122)	CKSRYB472K50	C
				C 184	(A,114,117)	CKSRYB105K10	
R 653	(A,135,62)	RS1/10SR102J		C 185	(A,115,117)	CKSRYB105K10	
R 654	(A,136,35)	RS1/10SR102J		C 186	(A,117,117)	CKSRYB105K10	
R 701	(B,63,44)	RS1/16S473J		C 187	(A,118,117)	CKSRYB105K10	
R 702	(A,89,39)	RAB4C472J					
R 703	(B,63,42)	RS1/16S104J		C 188	(A,114,105)	CKSRYB104K16	
				C 189	(A,113,102)	CEJQ220M16	
R 704	(B,90,44)	RS1/16S221J		C 201	(A,126,75)	CEJQ470M16	
R 705	(B,70,44)	RS1/16S221J		C 202	(B,126,77)	CKSRYB104K16	
R 706	(B,90,41)	RS1/16S221J		C 203	(A,137,67)	CCSRCH470J50	
R 707	(B,69,42)	RS1/16S221J					
R 708	(B,90,39)	RS1/16S221J		C 205	(A,127,71)	CKSRYB474K10	
				C 206	(A,132,76)	CEJQ100M16	D
R 709	(B,70,40)	RS1/16S102J		C 207	(B,110,78)	CKSRYB105K10	
R 751	(A,22,55)	RD1/4PU102J		C 208	(B,108,76)	CKSRYB105K10	
R 784	(B,92,54)	RS1/16S103J		C 209	(B,107,71)	CKSRYB105K10	
R 801	(B,106,24)	RS1/16S222J					
R 802	(B,114,27)	RS1/16S222J		C 210	(B,109,73)	CKSRYB105K10	
				C 211	(B,139,85)	CKSRYB224K16	
R 803	(B,112,14)	RS1/16S222J		C 212	(B,140,82)	CKSRYB224K16	
R 804	(B,116,27)	RS1/16S222J		C 213	(B,84,71)	CKSRYB105K10	
R 805	(B,116,14)	RS1/16S222J		C 214	(B,88,75)	CKSRYB105K10	
R 806	(B,108,16)	RS1/16S222J					
R 807	(B,112,27)	RS1/16S104J		C 215	(B,88,73)	CKSRYB105K10	
				C 216	(B,83,74)	CKSRYB105K10	E
R 808	(B,102,17)	RS1/16S104J		C 217	(A,114,84)	CKSQYB475K10	
R 821	(A,41,39)	RS1/16S473J		C 218	(A,135,84)	CKSQYB475K10	
R 822	(A,44,39)	RS1/16S1R0J		C 219	(A,112,88)	CKSQYB475K10	
R 824	(A,41,47)	RS1/10SR561J					
R 831	(A,89,16)	RS1/16S331J		C 220	(A,137,88)	CKSQYB475K10	
				C 221	(A,115,91)	CKSQYB475K10	
R 842	(A,100,24)	RS1/10SR102J		C 222	(A,135,92)	CKSQYB475K10	
R 843	(A,100,25)	RS1/16S472J		C 224	(A,119,97)	CEJQ100M16	
R 851	(A,48,24)	RD1/4PU272J		C 241	(A,113,97)	CEJQ470M16	
R 853	(B,42,24)	RS1/16S101J					
R 854	(B,42,22)	RS1/16S101J		C 242	(B,113,93)	CKSRYB104K16	
				C 243	(A,104,87)	CKSRYB224K16	
R 855	(A,39,29)	RS1/10SR821J		C 255	(B,128,80)	CKSRYB104K16	F
R 856	(A,36,27)	RS1/16S1R0J		C 301	(A,129,102)	CEJQ100M16	
R 857	(A,24,30)	RS1/10SR561J		C 302	(A,123,102)	CEJQ100M16	
R 871	(A,51,11)	RS1/10SR102J					
R 875	(A,145,35)	RAB4C102J					

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Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

C 303 (A,146,120) CEJQ100M16
 C 304 (A,133,120) CEJQ100M16
 C 305 (A,140,120) CEJQ100M16
 A C 306 (A,126,120) CEJQ100M16
 C 307 (A,78,83) CEJQ220M16

C 352 (A,95,121) CKSRYB474K10
 C 353 (A,98,121) CKSRYB474K10
 C 354 (A,100,121) CKSRYB474K10
 C 355 (A,93,121) CKSRYB474K10
 C 356 (A,85,83) CEJQ330M10

C 357 (A,95,124) CKSQYB474K16
 C 358 (A,98,124) CKSQYB474K16
 C 359 (A,100,124) CKSQYB474K16
 C 360 (A,93,124) CKSQYB474K16
 B C 361 (A,95,128) CKSQYB225K10

C 362 (A,99,128) CKSQYB225K10
 C 364 (A,91,83) CEJQ100M16
 C 365 (B,97,144) CKSRYB104K16
 C 366 (A,54,118) 3 300 μ F/16 V CCH1486
 C 402 (B,164,106) CKSRYB103K50

C 403 (B,164,111) CKSRYB103K50
 C 404 (A,160,143) CKSRYB103K50
 C 405 (A,157,105) CEJQ470M6R3
 C 406 (A,157,115) CEJQ101M16
 C 451 (A,155,89) CEJQ220M16

C 452 (B,148,87) CKSRYB103K50
 C 453 (B,147,74) CKSYB475K16
 C 501 (A,37,59) 100 μ F/6.3 V CCH1804
 C 502 (A,42,79) CEJQ221M16
 C 503 (A,48,52) CKSRYB221K50

C 504 (A,52,65) CKSRYB105K16
 C 506 (A,45,57) CKSRYB102K50
 C 507 (A,47,59) CKSRYB104K16
 C 603 (B,123,66) CCSRCH180J50
 C 604 (B,127,66) CCSRCH180J50

D C 606 (A,107,57) CEJQ100M16
 C 607 (B,126,55) CKSRYB103K50
 C 651 (A,137,62) CKSRYB105K10
 C 652 (A,138,34) CKSRYB104K16
 C 701 (B,82,20) CKSRYB104K16

C 731 (A,57,45) CEJQ220M16
 C 732 (B,57,43) CKSRYB103K50
 C 733 (B,56,28) CKSRYB474K10
 C 751 (A,66,48) CEJQ101M16
 C 752 (B,80,47) CKSRYB102K50

E C 753 (B,23,50) CKSRYB473K50
 C 781 (B,63,76) CKSRYB104K16
 C 782 (B,60,69) CKSRYB104K16
 C 821 (B,35,44) CKSRYB473K50
 C 841 (B,120,27) CKSRYB473K50

C 852 (A,51,19) CEJQ470M25
 C 853 (B,47,29) CKSRYB103K50
 C 854 (A,42,19) CCSRCH331J50
 C 855 (A,42,29) CKSRYB104K16
 C 856 (A,42,34) CEJQ101M16

F C 858 (B,34,34) CKSRYB104K16
 C 871 (B,149,29) CCSRCH101J50
 C 872 (B,146,32) CKSRYB102K50
 C 873 (B,149,22) CCSRCH101J50
 C 874 (A,73,7) CEJQ220M16

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B**Unit Number : (P600UB)****Unit Number : (P6000UB)****Unit Number : (P6050UB)****Unit Name : Keyboard Unit****MISCELLANEOUS**

IC 1901	(B,96,23) IC	PEG432A
IC 1921	(A,148,25) IC(P600UB)	PD8178A
	(A,148,25) IC(P6000UB)	PD8177A
	(A,148,25) IC(P6050UB)	PD8180A
IC 1931	(A,77,35) IC	GP1UX31RK
IC 1951	(B,75,14) IC	S-1200B33-M5
Q 1831	(B,61,29) Transistor	UMD3N
Q 1832	(B,20,11) Digital Transistor	DTC143EUA
Q 1833	(B,33,10) Transistor	DTC123JU
Q 1961	(A,133,18) Transistor	2SC4617
Q 1962	(A,126,17) Transistor	2SD1664
D 1831	(A,60,12) LED	SMLE12BC7T(NP)
D 1832	(A,8,35) LED	SMLE12BC7T(NP)
D 1833	(A,153,5) LED	SMLE12BC7T(NP)
D 1834	(A,111,5) LED	SMLE12BC7T(NP)
D 1835	(A,132,5) LED	SMLE12BC7T(NP)
D 1836	(A,23,12) LED	SMLE12BC7T(NP)
D 1837	(A,23,34) LED	SMLE12BC7T(NP)
D 1838	(A,8,11) LED	SMLE12BC7T(NP)
D 1839	(A,60,34) LED	SMLE12BC7T(NP)
D 1901	(B,84,16) Diode	1SS355
L 1951	(B,81,10) Inductor	CTF1617
L 1961	(A,131,18) Inductor	CTF1617
TH1961	(A,136,22) Thermistor	CCX1037
X 1901	(B,83,19) Ceramic Resonator	16.000 MHz CSS1616
S 1801	(A,162,6) Push Switch	CSG1155
S 1811	(A,42,23) Switch (MULTI CONTROL)	CSX1120
S 1831	(A,58,8) Push Switch	CSG1155
S 1832	(A,10,38) Push Switch	CSG1155
S 1833	(A,157,5) Push Switch	CSG1155
S 1834	(A,115,5) Push Switch	CSG1155
S 1835	(A,139,5) Push Switch	CSG1155
S 1836	(A,25,8) Push Switch	CSG1155
S 1837	(A,25,38) Push Switch	CSG1155
S 1838	(A,10,8) Push Switch	CSG1155

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<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
S 1839 (A,58,38) Push Switch	CSG1155	C 1951 (B,75,18)	CKSRYB105K10
RESISTORS		C 1952 (B,77,10)	CKSRYB105K10
R 1801 (B,102,38)	RS1/16S222J	C 1953 (B,81,12)	CKSRYB105K10
R 1802 (B,102,36)	RS1/16S222J	C 1963 (A,113,22)	CKSRYB104K16
R 1803 (B,157,28)	RS1/16S333J	C 1964 (B,121,19)	CKSRYB104K16
R 1811 (B,54,27)	RS1/16S103J	C 1965 (A,127,22)	CKSRYB104K25
R 1812 (B,29,26)	RS1/16S333J	C 1966 (A,124,21)	CKSRYB104K25
R 1813 (B,29,28)	RS1/16S103J	<div>C</div> Unit Number : CWX3526 Unit Name : CD Core Unit (S10.5COMP2-iPod)	
R 1814 (B,54,24)	RS1/16S102J		
R 1815 (B,52,30)	RS1/16S332J		
R 1816 (B,29,23)	RS1/16S102J	MISCELLANEOUS	
R 1818 (B,66,11)	RS1/16S103J	IC 201 (A,36,46) IC	PE5611B
R 1819 (B,54,16)	RS1/16S222J	IC 202 (A,24,30) IC	S-93C66BD0I-J8
R 1834 (B,66,6)	RS1/16S821J	IC 205 (B,25,47) IC	341S2094
R 1835 (B,20,15)	RS1/16S821J	IC 301 (A,29,15) IC	BA5839FP
R 1836 (B,18,14)	RS1/16S152J	Q 101 (B,58,70) Transistor	2SA1577
R 1839 (B,29,14)	RS1/16S681J	Q 102 (B,49,58) Chip Transistor	2SB1689
R 1840 (B,30,14)	RS1/16S681J	Q 201 (B,27,54) Transistor	2SA1577
R 1841 (B,30,11)	RS1/16S271J	X 201 (A,23,38) Ceramic Resonator 16.934 MHz	CSS1603
R 1843 (B,32,14)	RS1/16S681J	X 204 (B,17,45) Oscillator 32.768 kHz	CSS1735
R 1844 (B,34,14)	RS1/16S681J	X 205 (B,34,63) Oscillator 48.000 MHz	CSS1753
R 1901 (A,98,33)	RS1/16S103J	S 901 (A,55,37) Switch(HOME)	CSN1067
R 1902 (A,93,25)	RS1/16S473J	S 903 (B,20,59) Switch(DSCSNS)	CSN1067
R 1903 (B,81,15)	RS1/16S154J	S 904 (B,41,68) Switch(12EJ)	CSN1068
R 1904 (B,84,27)	RAB4CQ102J	S 905 (B,25,70) Switch(8EJ)	CSN1068
R 1905 (B,66,21)	RS1/16S104J	RESISTORS	
R 1906 (B,95,34)	RAB4CQ473J	R 101 (B,61,74)	RS1/10SR2R4J
R 1907 (B,93,11)	RAB4CQ102J	R 102 (B,61,72)	RS1/10SR2R4J
R 1908 (A,93,16)	RS1/16S221J	R 103 (B,61,71)	RS1/10SR2R7J
R 1909 (B,98,34)	RAB4CQ473J	R 104 (B,54,67)	RS1/16SS222J
R 1910 (B,141,13)	RAB4CQ101J	R 105 (B,45,58)	RS1/16SS102J
R 1911 (B,134,13)	RAB4CQ101J	R 107 (B,52,60)	RS1/16SS105J
R 1912 (B,130,15)	RAB4CQ101J	R 201 (A,20,33)	RS1/16S472J
R 1913 (A,102,33)	RS1/16S101J	R 202 (A,27,33)	RS1/16SS473J
R 1914 (B,102,34)	RS1/16S101J	R 203 (A,51,44)	RS1/16S473J
R 1915 (B,147,26)	RAB4CQ101J	R 204 (A,24,58)	RS1/16SS221J
R 1916 (A,147,16)	RAB4CQ101J	R 206 (B,10,27)	RS1/16SS104J
R 1917 (A,144,16)	RAB4CQ101J	R 210 (B,10,23)	RS1/16SS102J
R 1918 (A,131,30)	RAB4CQ101J	R 214 (B,50,50)	RS1/16SS472J
R 1919 (A,106,33)	RAB4CQ101J	R 216 (B,49,49)	RS1/16SS472J
R 1920 (A,108,23)	RAB4CQ101J	R 221 (A,51,48)	RS1/16SS103J
R 1931 (B,84,30)	RS1/16S101J	R 222 (A,51,46)	RS1/16SS103J
R 1932 (B,75,36)	RS1/16S103J	R 223 (B,14,43)	RS1/16SS473J
R 1933 (B,72,27)	RS1/16S2R2J	R 225 (A,51,50)	RS1/16SS103J
R 1951 (B,75,10)	RS1/16S222J	R 226 (A,51,51)	RS1/16SS393J
R 1961 (A,135,25)	RS1/16S333J	R 227 (B,48,52)	RS1/16SS562J
R 1962 (A,135,18)	RS1/16S183J	R 228 (B,45,52)	RS1/16SS122J
R 1963 (A,137,23)	RS1/16S563J	R 229 (B,47,54)	RS1/16SS472J
R 1964 (A,111,22)	RS1/16S392J	R 230 (B,22,25)	RS1/16SS0R0J
R 1965 (A,108,20)	RAB4CQ101J	R 232 (B,46,52)	RS1/16SS122J
R 1966 (A,128,22)	RS1/16S5101D	R 233 (B,26,59)	RS1/16SS103J
CAPACITORS		R 234 (B,23,26)	RS1/16SS473J
C 1901 (A,89,23)	CKSRYB103K50	R 235 (A,26,59)	RS1/16SS473J
C 1902 (B,81,17)	CKSRYF104Z25	R 237 (A,24,35)	RS1/16SS151J
C 1903 (B,106,25)	CKSRYB103K50		
C 1921 (B,157,31)	CKSRYB103K50		
C 1931 (B,78,26)	CKSYB106K6R3		

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Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 240 (B,14,26)
R 241 (B,14,25)
R 243 (A,22,25)
R 244 (B,22,55)

RS1/16S473J
RS1/16SS103J
RS1/16S0R0J
RS1/16SS473J

C 218 (A,50,52)
C 219 (A,47,54)
C 220 (A,48,54)
C 221 (A,46,54)
C 222 (B,46,54)
C 223 (B,48,54)

CKSSYB473K10
CKSSYB104K10
CKSSYB182K50
CKSSYB104K10
CCSSCH560J50
CCSSCH4R0C50

R 250 (B,25,52)
R 251 (B,22,51)
R 252 (B,21,48)
R 254 (A,26,64)
R 255 (A,26,63)

RS1/16SS101J
RS1/16SS101J
RS1/16SS101J
RS1/16SS104J
RS1/16SS104J

C 224 (A,45,56)
C 226 (A,42,59)
C 227 (A,42,61)
C 228 (B,41,62)
C 229 (B,48,60)

CKSSYB104K10
CCSSCH680J50
CCSSCH470J50
CKSSYB103K16
CKSSYB104K10

R 256 (A,26,62)
R 259 (A,28,66)
R 261 (A,26,65)
R 262 (A,30,60)
R 263 (A,28,63)

RS1/16SS104J
RS1/16SS0R0J
RS1/16SS104J
RS1/16SS0R0J
RS1/16SS0R0J

C 236 (A,50,58)
C 239 (B,47,52)
C 240 (A,38,61)
C 243 (B,22,41)
C 250 (A,52,48)

CKSSYB104K10
CCSSCH220J50
CKSSYB104K10
CKSQYB475K6R3
CKSSYB102K50

R 273 (B,19,48)
R 274 (B,18,51)
R 275 (B,19,51)
R 276 (B,20,51)
R 277 (B,24,52)

RS1/16SS103J
RS1/16SS104J
RS1/16SS104J
RS1/16SS104J
RS1/16SS103J

C 251 (A,52,46)
C 260 (A,28,61)
C 261 (B,34,67)
C 262 (B,32,66)
C 290 (B,22,43)

CKSSYB102K50
CKSSYB104K10
CCSSCH8R0D50
CCSSCH8R0D50
CKSSYB104K10

R 278 (B,27,51)
R 279 (B,23,52)
R 282 (A,30,61)
R 283 (A,29,61)
R 284 (B,30,63)

RS1/16SS1003D
RS1/16SS104J
RS1/16SS240J
RS1/16SS240J
RS1/16SS153J

C 291 (B,17,42)
C 292 (B,17,48)
C 293 (B,44,61)
C 294 (B,25,41)
C 295 (B,56,61)

CCSSCH5R0C50
CCSSCH5R0C50
CKSSYB102K50
CKSSYB103K16
CKSQYB106K6R3

R 285 (B,28,63)
R 289 (B,19,45)
R 291 (B,43,62)
R 292 (B,25,43)
R 293 (B,27,52)

RS1/16SS153J
RS1/16SS0R0J
RS1/16SS272J
RS1/16SS221J
RS1/16SS472J

C 296 (B,56,63)
C 303 (A,36,19)
C 304 (A,36,21)
C 307 (A,22,11)
C 308 (B,11,18)

CKSQYB106K6R3
CKSSYB472K25
CKSSYB223K16
CKSRYB104K16
CKSRYB105K10

R 294 (A,32,63)
R 295 (B,55,64)
R 307 (A,35,19)
R 308 (A,38,19)
R 309 (A,35,21)

RS1/16SS471J
RS1/16SS103J
RS1/16SS183J
RS1/16SS183J
RS1/16SS183J

C 703 (B,15,35)
C 704 (B,12,36)
C 711 (A,31,25)

CCSSCH101J50
CKSSYB102K50
CKSSYB104K10

R 310 (A,38,22)
R 601 (B,30,31)
R 602 (B,27,31)
R 606 (B,28,23)
R 701 (B,12,37)

RS1/16SS183J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16S0R0J
RS1/16SS221J

R 702 (A,24,56)
R 708 (B,15,37)
R 712 (B,15,54)
R 713 (B,15,53)

RS1/16SS221J
RS1/16S0R0J
RS1/16SS0R0J
RS1/16SS0R0J

CAPACITORS

C 106 (B,57,67)
C 201 (A,27,30)
C 202 (A,28,57)
C 204 (A,24,59)
C 205 (B,27,41)
C 206 (A,23,41)

CKSQYB475K6R3
CKSRYB104K16
CKSSYB104K10
CKSSYB103K16
CKSQYB475K6R3
CKSSYB104K10

C 207 (A,25,38)
C 209 (B,36,35)
C 210 (B,29,37)
C 211 (A,28,35)
C 212 (A,29,30)

CKSRYB104K16
CEVW220M6R3
CKSSYB104K10
CKSSYB104K10
CKSRYB104K16

C 213 (A,46,39)
C 214 (A,29,34)
C 216 (A,51,52)
C 217 (A,48,52)

CKSSYB104K10
CKSSYB104K10
CKSSYB332K50
CKSSYB104K10

D**Unit Number : CWS1389****Unit Name : Switch Unit****MISCELLANEOUS**

S 1 (A,6,14) Switch(OPEN) CSN1051
S 2 (A,32,12) Spring Switch(CLOSE) CSN1052

Miscellaneous Parts List

M 1 Pickup Unit(P10.5)(Service) CXX1942
M 1 Motor Unit(SPINDLE) CXC7134
M 2 Motor Unit(LOADING/CARRIAGE)CXC4026
Motor Unit(FLAP) XXA7400